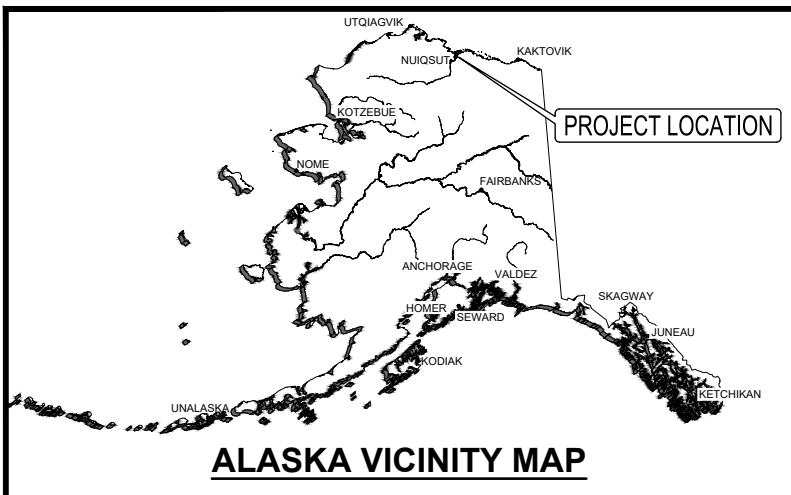


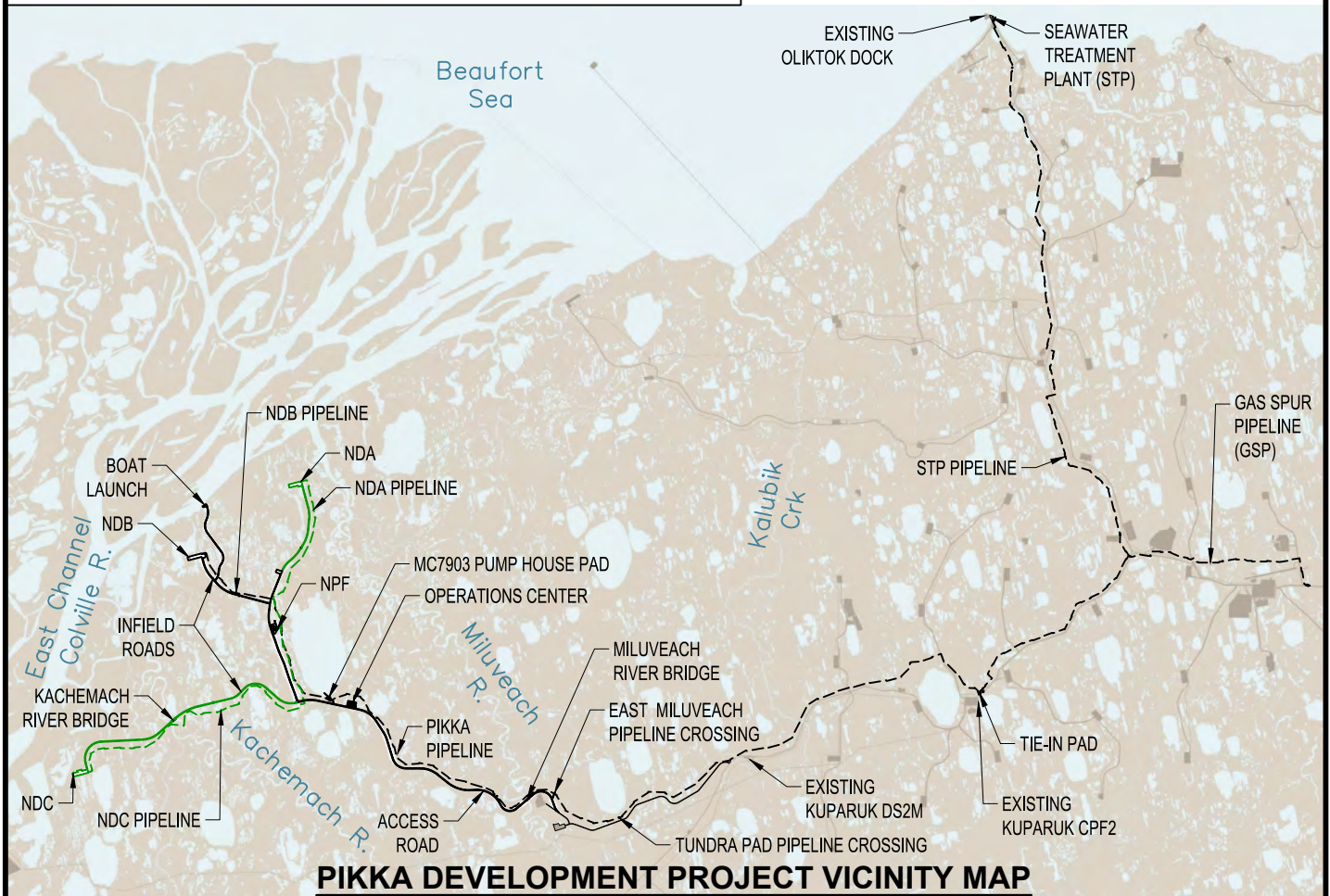
Pikka Development Project

Proposed Revisions to POA-2015-00025 Permit Modification 9
DA Permit Drawings
(Sheets 1 – 81)



LEGEND

- PROPOSED GRAVEL ROAD
- - - PROPOSED PIPELINE
- PROPOSED PAD
- CONSTRUCTED GRAVEL ROAD
- CONSTRUCTED PIPELINE
- CONSTRUCTED PAD
- EXISTING ROAD
- EXISTING PIPELINE
- EXISTING PAD/FACILITY



<p>DATUM: NAVD88, NAD83 ASP Zone 4</p>	<p>APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited</p> <p>ADDRESS: 601 W. 5th Avenue Anchorage, AK 99501</p> <p>PROJECT: Pikka Development Project</p> <p>LOCATION: T10N R7,8E; T11N R5,6,7,8,9,10E; T12N R6,9E; T13N R9E; Umiat Meridian</p>	<p>ACTIVITY: Road, Pad and Pipeline Construction</p> <p>REFERENCE: POA-2015-00025</p> <p>WATERWAY: Miluveach River, Simpson Lagoon, & Ugnaravik River</p> <p>COUNTY: North Slope Borough</p> <p>STATE: Alaska</p> <p>SHEET 1 of 81 2-20-26</p>
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1	PIKKA DEVELOPMENT PROJECT VICINITY MAP
2	SHEET INDEX
3	ADJACENT LAND OWNERSHIP
4	ADJACENT LAND OWNERSHIP CONTACT INFORMATION
5	PROJECT OVERVIEW
6	NANUSHUK PROCESSING FACILITY (NPF) PAD LAYOUT
7	NANUSHUK PROCESSING FACILITY (NPF) PAD SECTIONS
8	NANUSHUK DRILLSITE A (NDA) PAD LAYOUT
9	NANUSHUK DRILLSITE A (NDA) PAD SECTIONS
10	NANUSHUK DRILLSITE B (NDB) PAD LAYOUT
11	NANUSHUK DRILLSITE B (NDB) PAD SECTIONS
12	NANUSHUK DRILLSITE C (NDC) PAD LAYOUT
13	NANUSHUK DRILLSITE C (NDC) PAD SECTIONS
14	NANUSHUK OPERATIONS PAD (NOP) LAYOUT
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29	ACCESS ROAD AND PIKKA PIPELINE SHEET 4 OF 8
30	ACCESS ROAD AND PIKKA PIPELINE SHEET 5 OF 8
31	ACCESS ROAD AND PIKKA PIPELINE SHEET 6 OF 8
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35	TYPICAL ROAD TURNOUT
36A	ROAD TURNOUTS WITH TUNDRA ACCESS RAMPS
36B	TYPICAL VALVE PAD
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40	PIKKA PIPELINE GUIDED PIPE SUPPORT
41	PIKKA PIPELINE ANCHOR PIPE SUPPORT
42	NDA PIPELINE GUIDED PIPE SUPPORT

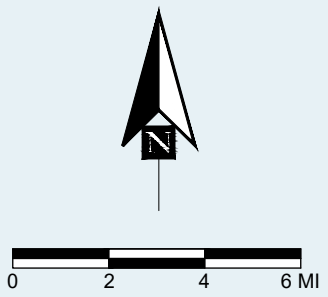
SHEET INDEX	
SHEET #	SHEET TITLE
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44	NDB PIPELINE GUIDED PIPE SUPPORT
45	NDB PIPELINE ANCHOR PIPE SUPPORT
46	NDC PIPELINE GUIDED PIPE SUPPORT
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49	MC7903 WATER INTAKE AND PUMP HOUSE PAD
50	MC7903 WATER INTAKE AND PUMP HOUSE PAD SECTIONS
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51C	EAST MILUVEACH PIPELINE CROSSING
52	TYPICAL EXISTING ROAD PIPELINE CROSSING
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57	KACHEMACH RIVER BRIDGE PIER SECTIONS
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59	MILUVEACH RIVER BRIDGE PIER SECTIONS
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80	FILL ACREAGE AND VOLUMES
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SHEET INDEX

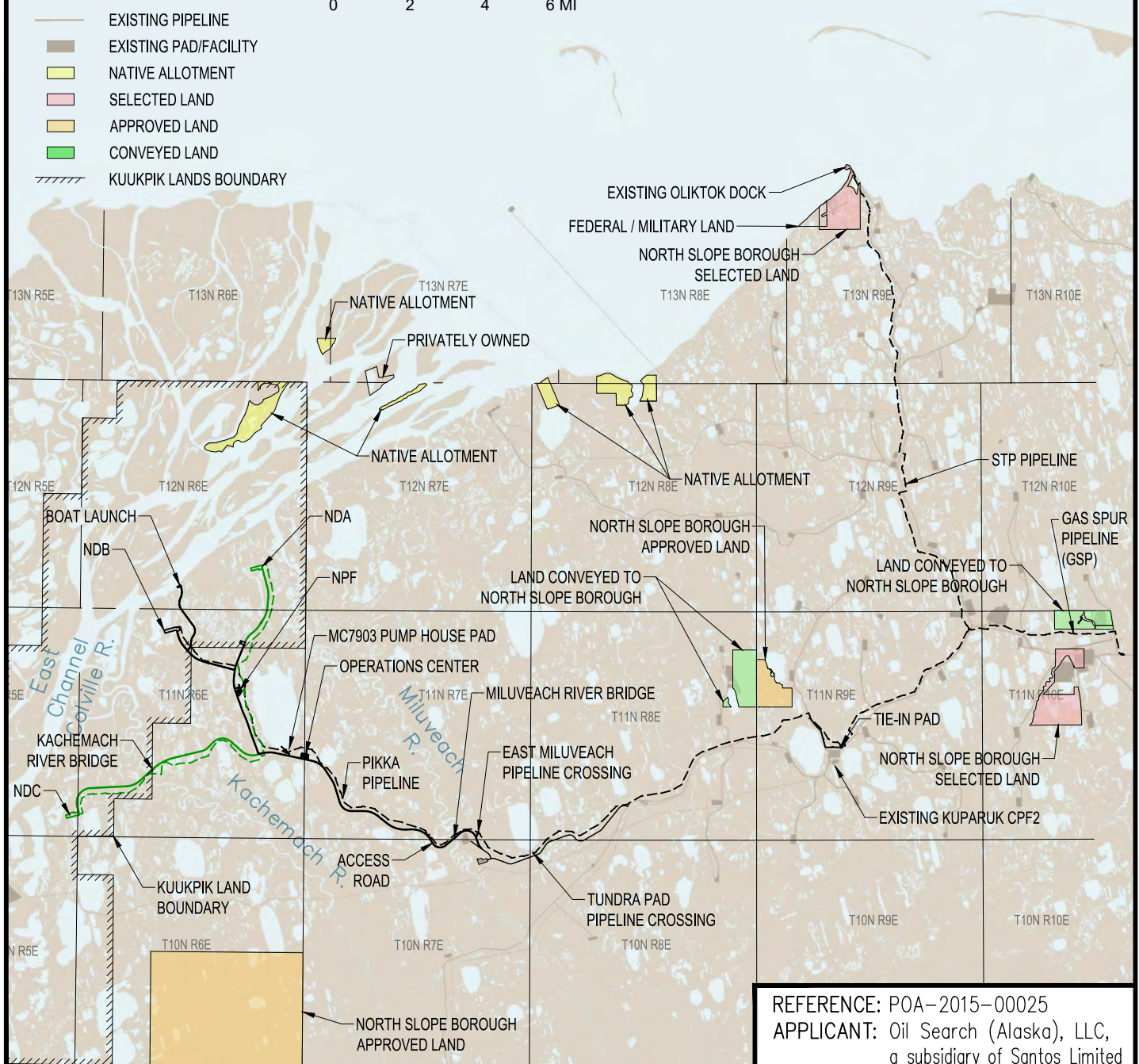
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **2** of **81** 2-20-26

LEGEND

- PROPOSED GRAVEL ROAD
- PROPOSED PIPELINE
- PROPOSED PAD
- CONSTRUCTED GRAVEL ROAD
- CONSTRUCTED PIPELINE
- CONSTRUCTED PAD
- EXISTING ROAD
- EXISTING PIPELINE
- EXISTING PAD/FACILITY
- NATIVE ALLOTMENT
- SELECTED LAND
- APPROVED LAND
- CONVEYED LAND
- KUUUKPIK LANDS BOUNDARY



NOTE:
LAND NOT SPECIFICALLY LABELED IS
STATE OF ALASKA LAND.



ADJACENT LAND OWNERSHIP

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **3** of **81** 2-20-26

ADJACENT LAND OWNERSHIP CONTACT INFORMATION

KUUKPIK VILLAGE CORPORATION
P.O. BOX 89187
NUIQSUT, AK 99789
(907) 480-6220

NORTH SLOPE BOROUGH
LAND SERVICES DIVISION
P.O. BOX 69
BARROW, AK 99723

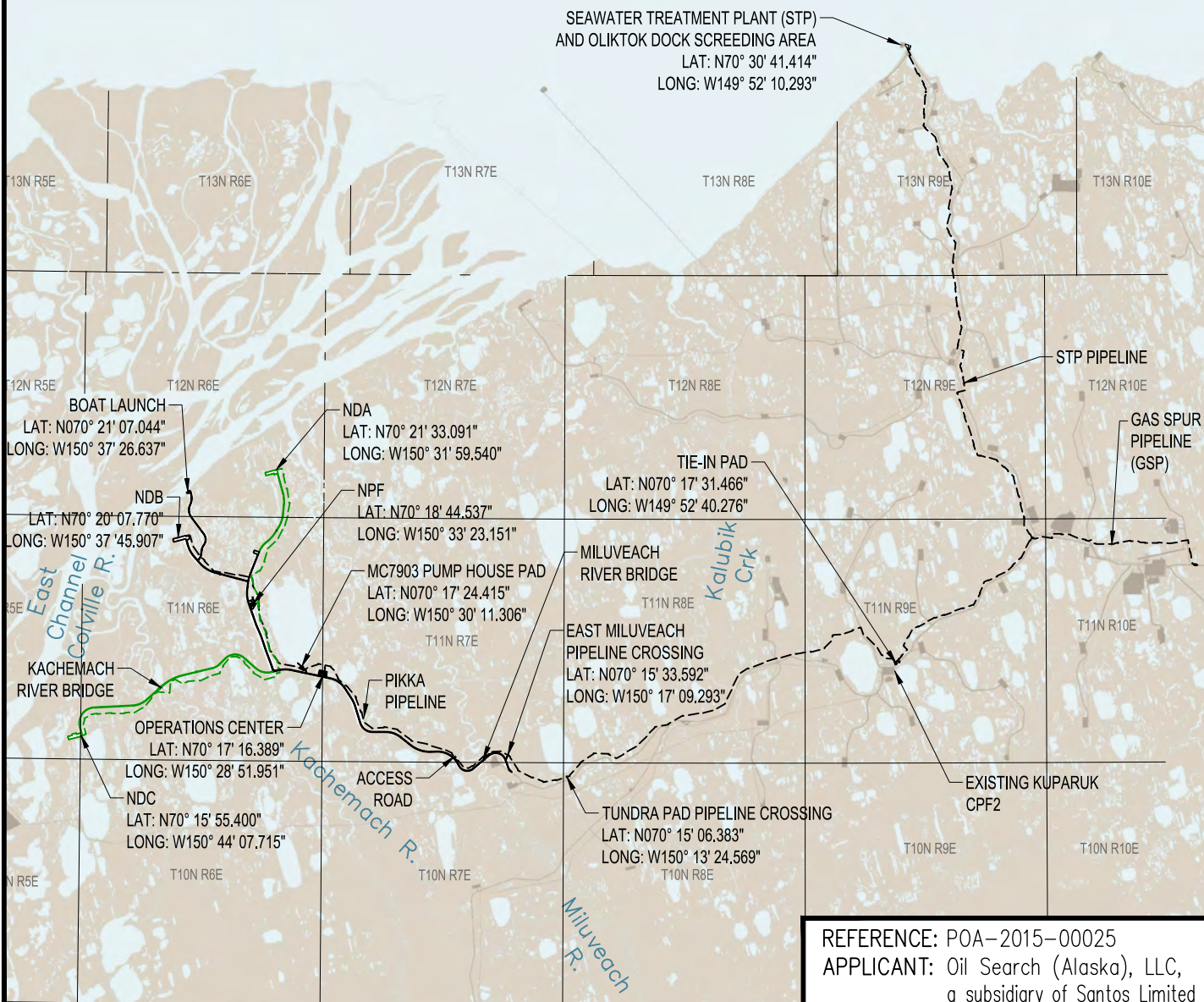
ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
550 W. 7TH AVE, SUITE 1100
ANCHORAGE, AK 99501-3563

UNITED STATES OF AMERICA, DEPARTMENT OF THE ARMY, DIVISION OF REAL ESTATE
U.S. ARMY ENGINEER DISTRICT, ALASKA
P.O. BOX 6898
JBER, AK 99506-6898

REFERENCE: POA-2015-00025
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited
PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction
AT: North Slope Borough, AK
SHEET **4** of **81** 2-20-26

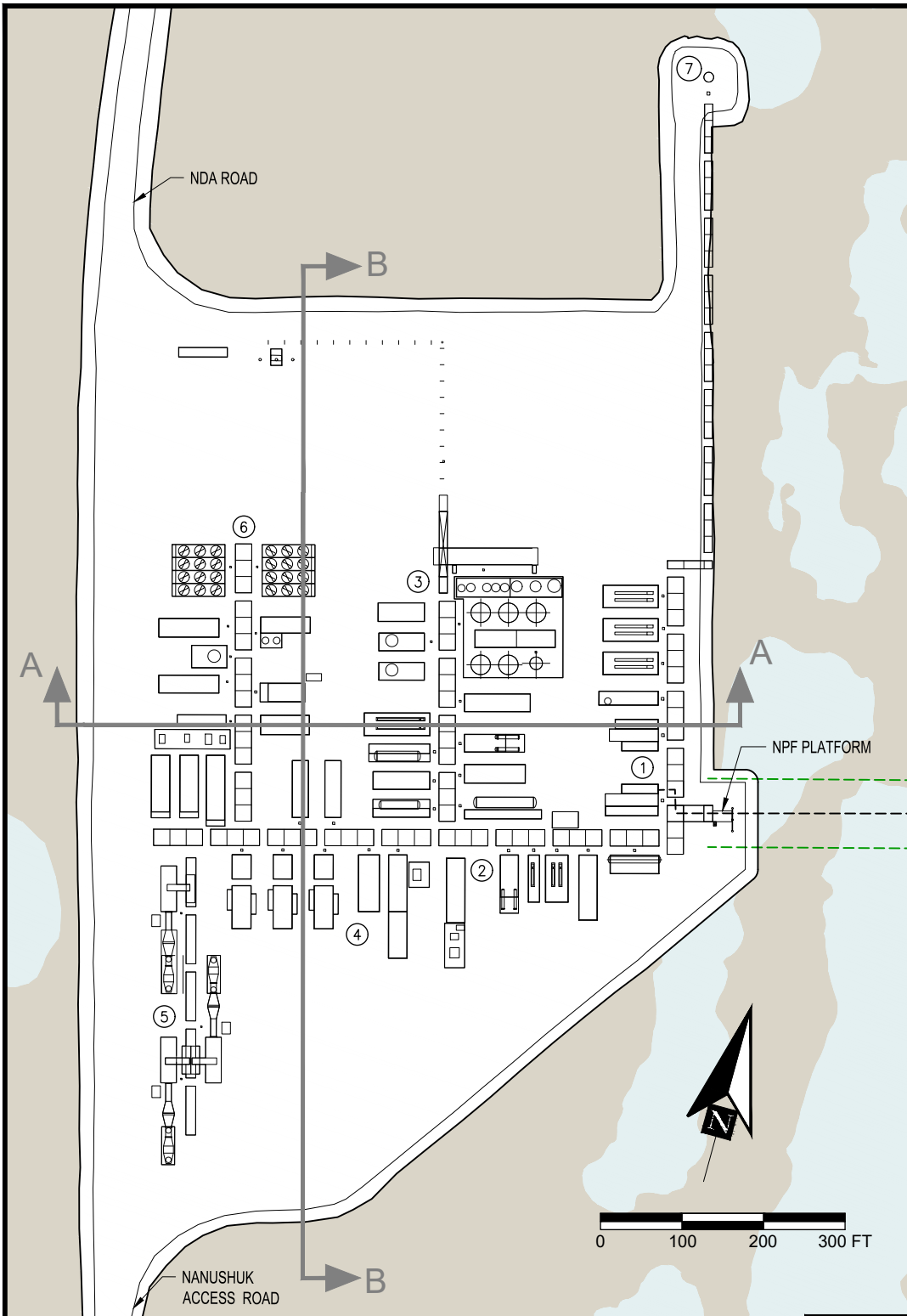
LEGEND

- PROPOSED GRAVEL ROAD
- - - PROPOSED PIPELINE
- PROPOSED PAD
- CONSTRUCTED GRAVEL ROAD
- - - CONSTRUCTED PIPELINE
- CONSTRUCTED PAD
- EXISTING ROAD
- - - EXISTING PIPELINE
- EXISTING PAD/FACILITY



PROJECT OVERVIEW

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **5** of **81** 2-20-26



FACILITIES	
①	ESG/PIGGING/SEAWATER INJECTION AREA
②	PROCESS SEPARATION/ DEHYDRATION AREA
③	WATER TREATMENT AREA
④	COMPRESSOR AREA
⑤	POWER GENERATION AREA
⑥	GLYCOL/UTILITIES AREA
⑦	FLARE

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 7 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

NANUSHUK PROCESSING FACILITY
(NPF) PAD LAYOUT

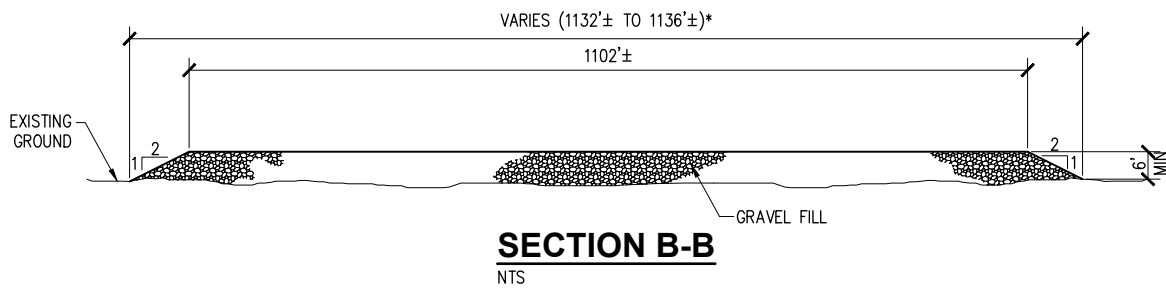
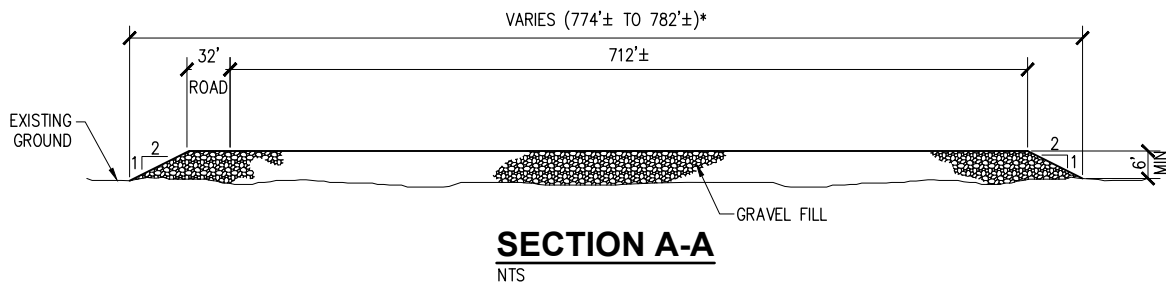
REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

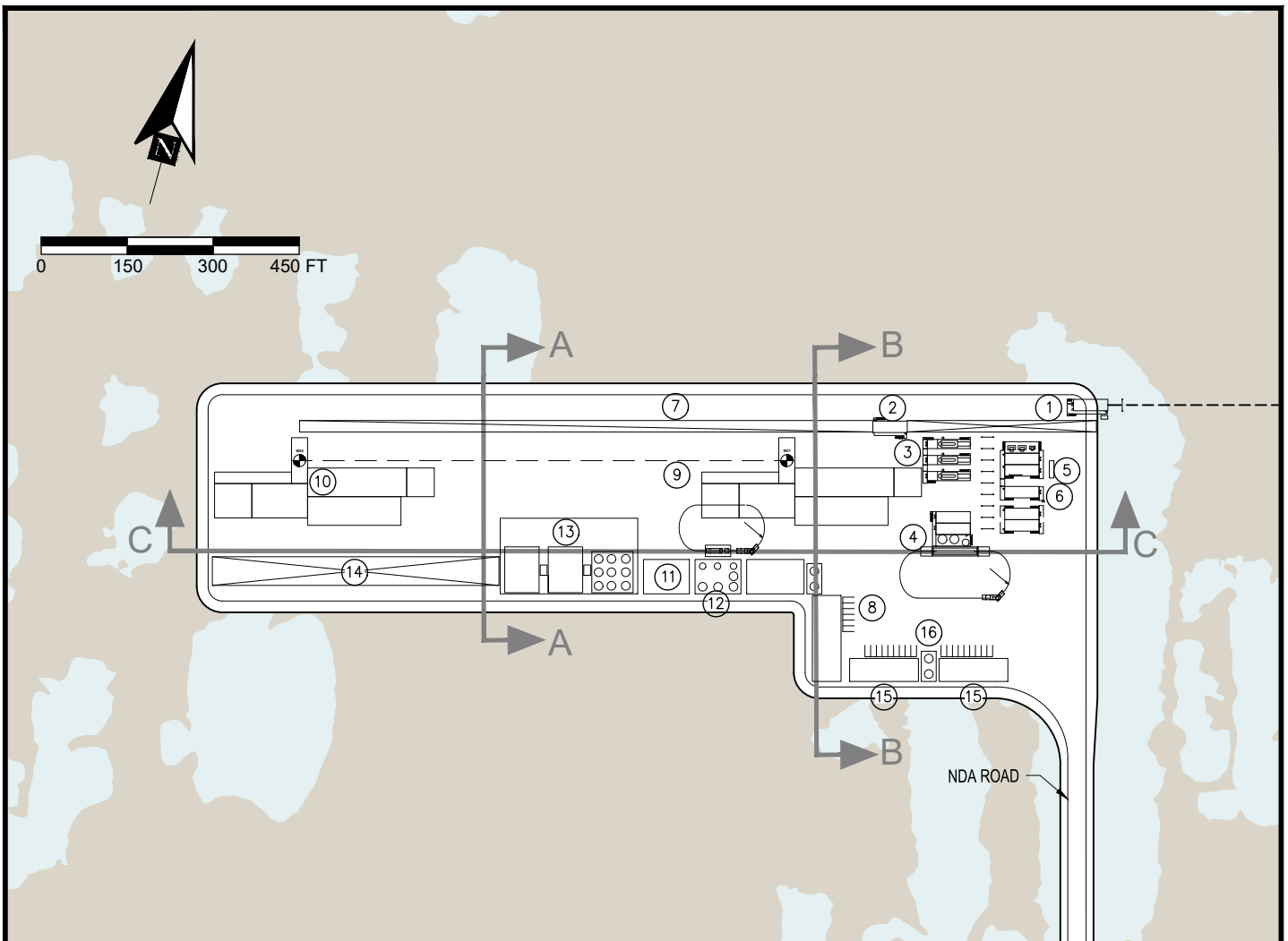
SHEET **6** of **81** 2-20-26



***NOTE:**
 MAX TOE TO TOE DIMENSIONS ARE
 ESTIMATED. ACTUAL DIMENSIONS WILL
 VARY BASED UPON SITE CONDITIONS.

NANUSHUK PROCESSING FACILITY (NPF)
PAD SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **7** of **81** 2-20-26



PLAN

FACILITIES					
①	PIGGING MODULE	⑦	PIPE RACK(S)	⑫	TANK FARM
②	ESD/METERING MODULE	⑧	COLD STORAGE/EMERGENCY RESPONSE	⑬	WELL STIMULUS EQUIPMENT
③	PRODUCTION HEATER MODULE (3)	⑨	WELL ROW	⑭	DRILLING LAYDOWN AREA
④	BULK STORAGE TANK PLATFORM	⑩	DRILL RIG COMPONENTS FOOTPRINT	⑮	TEMPORARY CAMP(S)
⑤	REIM	⑪	DRILL RIG SHOP	⑯	WASTE/WATER TANKS
⑥	COMMUNICATIONS TOWER				

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 9 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

REFERENCE: POA-2015-00025

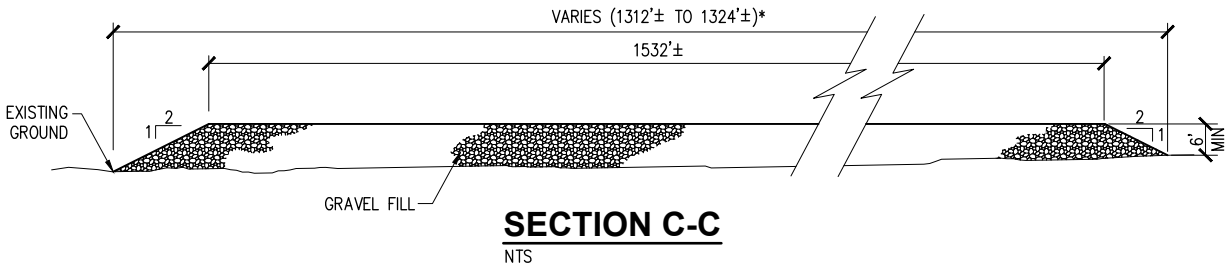
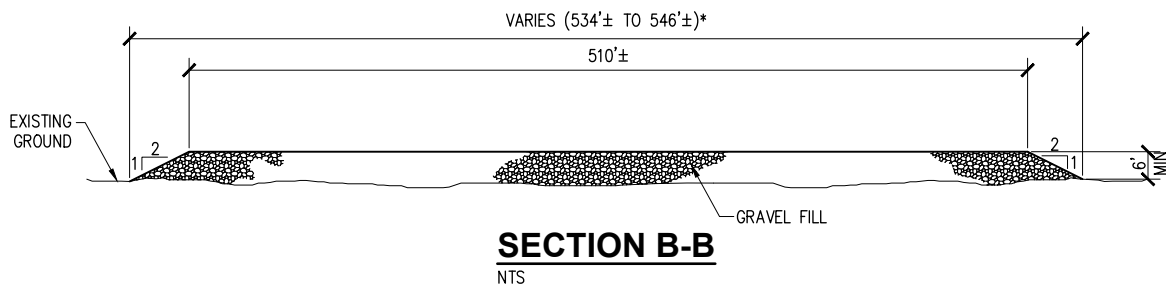
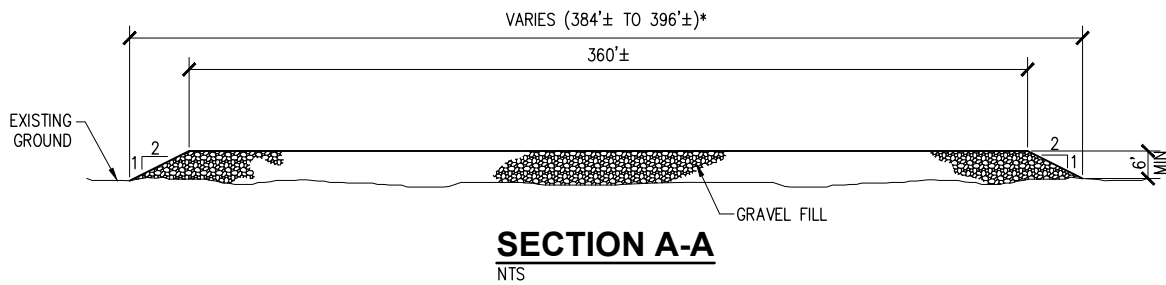
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **8** of **81** 2-20-26

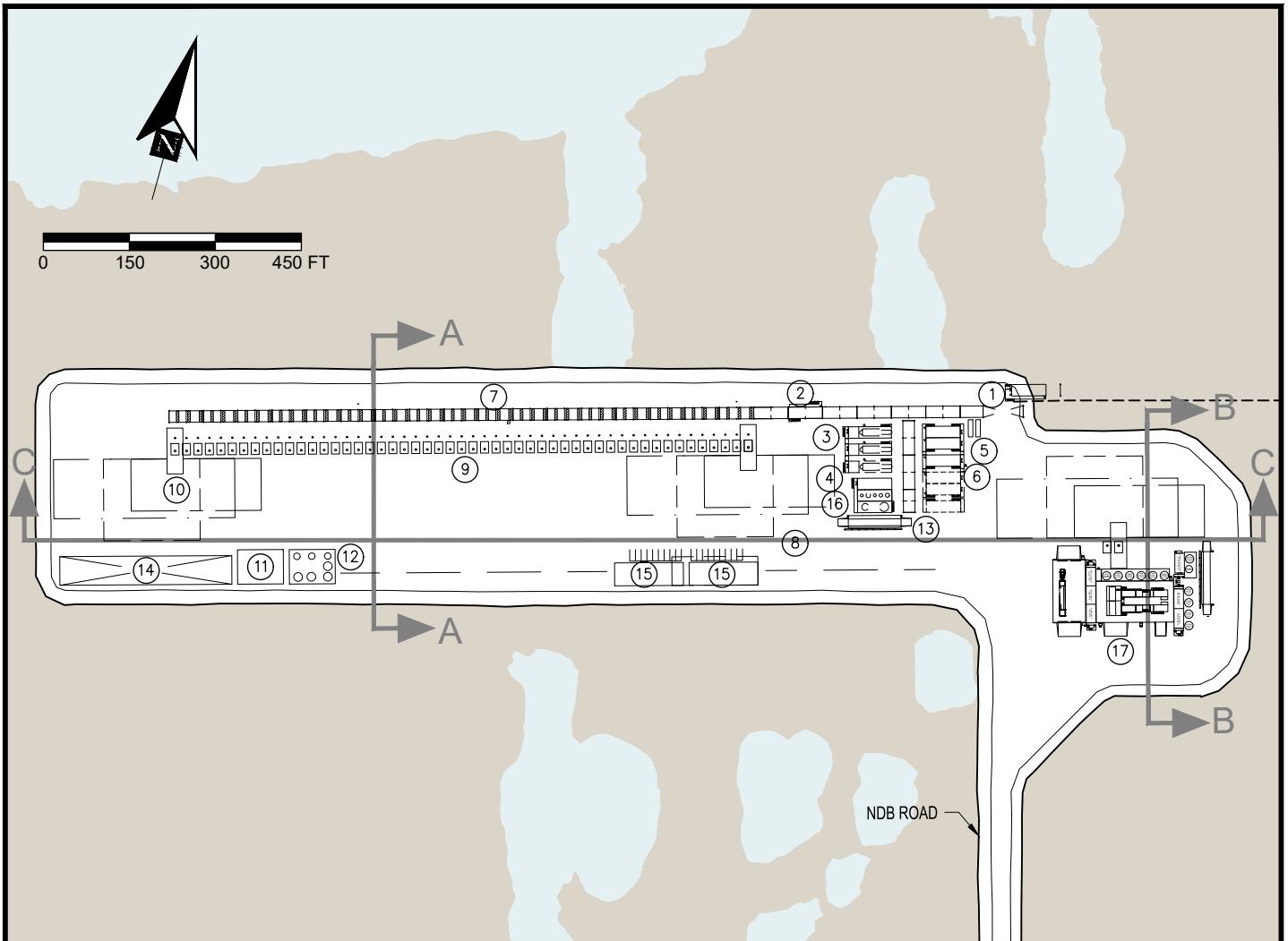
NANUSHUK DRILLSITE A (NDA) PAD LAYOUT



***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **9** of **81** 2-20-26

NANUSHUK DRILLSITE A (NDA) PAD SECTIONS



PLAN

FACILITIES					
①	PIGGING MODULE	⑦	PIPE RACK(S)	⑬	WELL STIMULUS EQUIPMENT
②	ESD/METERING MODULE	⑧	COLD STORAGE/EMERGENCY RESPONSE	⑭	DRILLING LAYDOWN AREA
③	PRODUCTION HEATER MODULE (3)	⑨	WELL ROW	⑮	TEMPORARY CAMP(S)
④	BULK STORAGE TANK PLATFORM	⑩	DRILL RIG COMPONENTS FOOTPRINT	⑯	WASTE/WATER TANKS
⑤	REIM	⑪	DRILL RIG SHOP	⑰	GRIND & INJECT
⑥	COMMUNICATIONS TOWER	⑫	TANK FARM		

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 11 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.
4. SLOPE PROTECTION AS NEEDED.

REFERENCE: POA-2015-00025

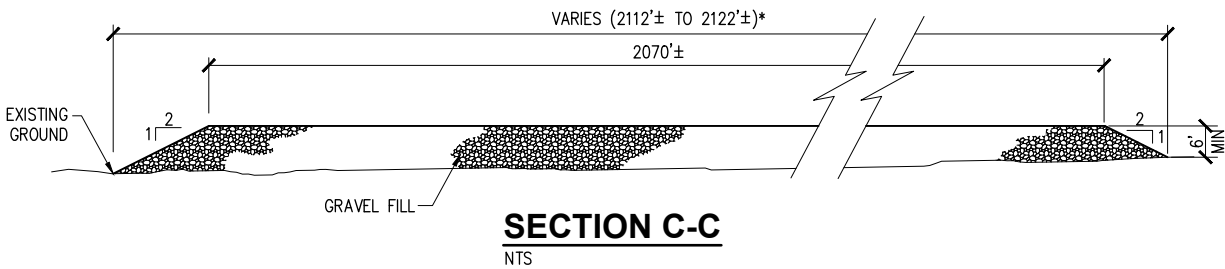
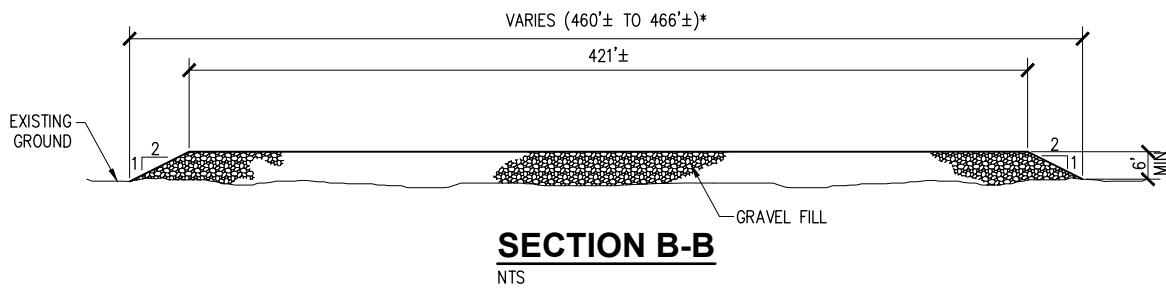
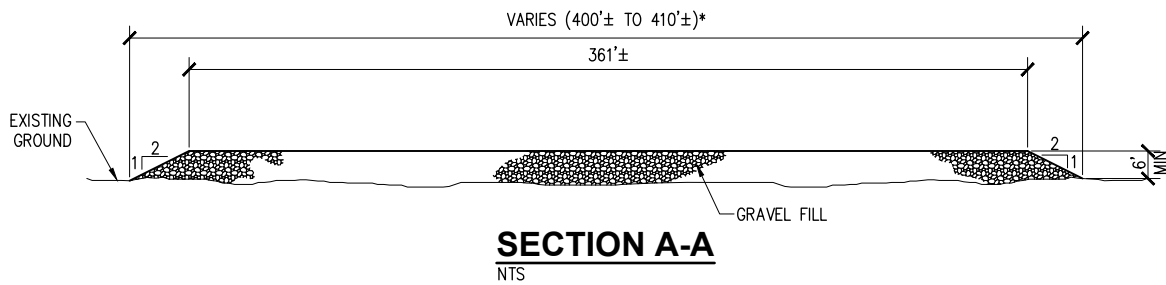
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **10** of **81** 2-20-26

NANUSHUK DRILLSITE B (NDB) PAD LAYOUT

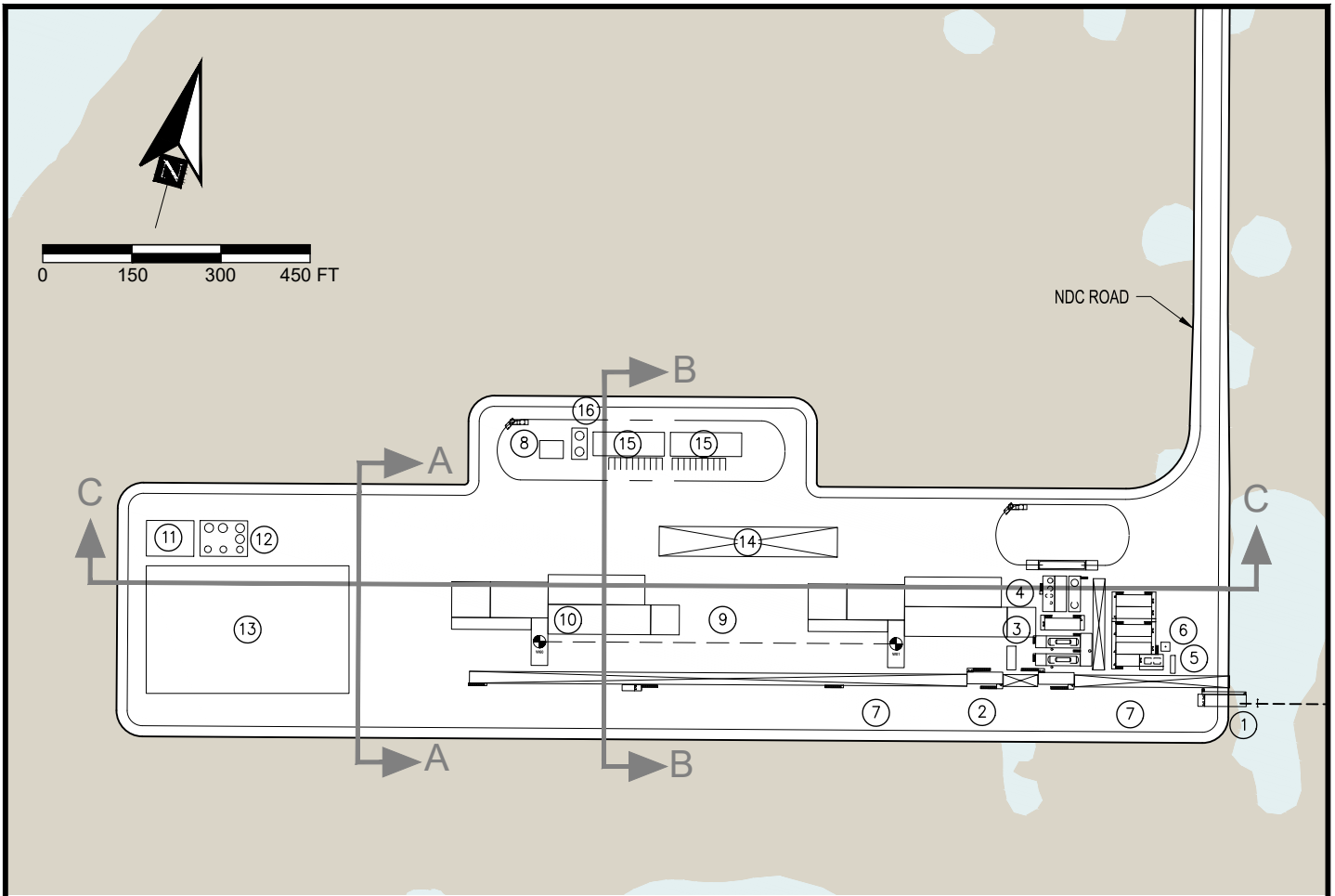


***NOTE:**

1. MAX TOE TO TOE DIMENSIONS ARE ESTIMATED. ACTUAL DIMENSIONS WILL VARY BASED UPON SITE CONDITIONS.
2. SLOPE PROTECTION AS NEEDED.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **11** of **81** 2-20-26

NANUSHUK DRILLSITE B (NDB) PAD SECTIONS



PLAN

FACILITIES			
①	PIGGING MODULE	⑦	PIPE RACK(S)
②	ESD/METERING MODULE	⑧	COLD STORAGE/EMERGENCY RESPONSE
③	PRODUCTION HEATER MODULE (2)	⑨	WELL ROW
④	BULK STORAGE TANK PLATFORM	⑩	DRILL RIG COMPONENTS FOOTPRINT
⑤	REIM	⑪	DRILL RIG SHOP
⑥	COMMUNICATIONS TOWER	⑫	TANK FARM
		⑬	WELL STIMULUS EQUIPMENT
		⑭	DRILLING LAYDOWN AREA
		⑮	TEMPORARY CAMP(S)
		⑯	WASTE/WATER TANKS

NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 13 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

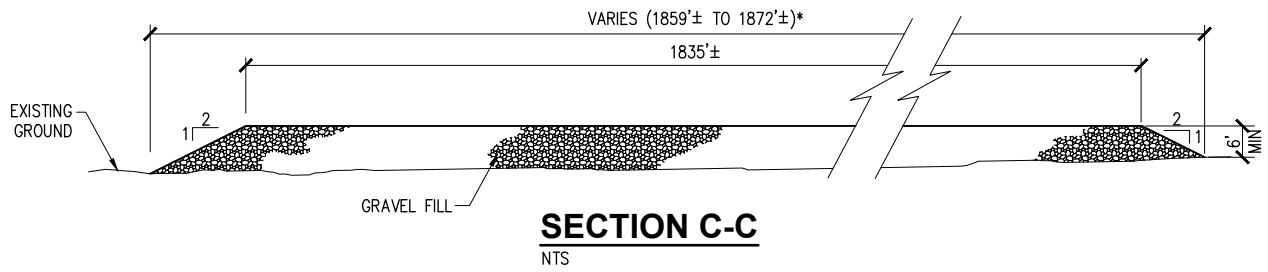
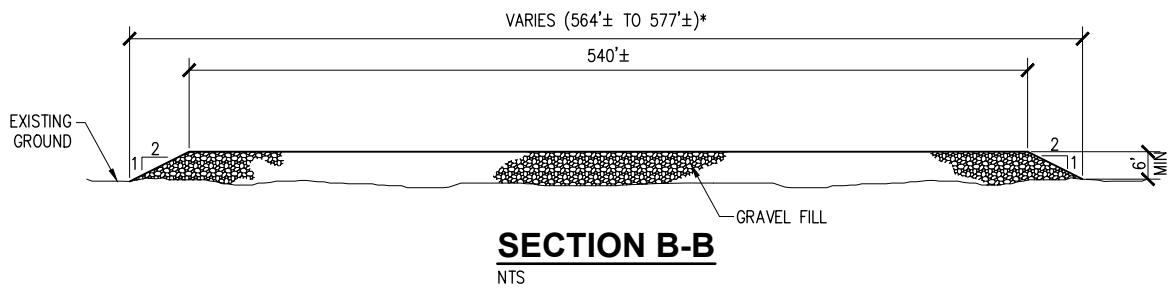
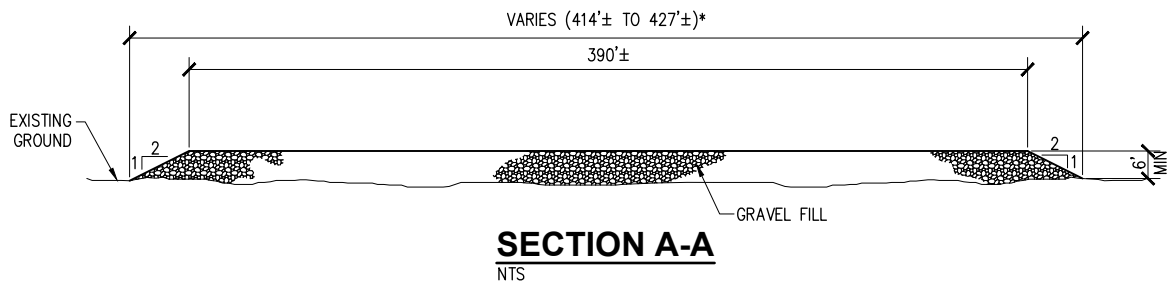
PROJECT: Pikka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **12** of **81** 2-20-26

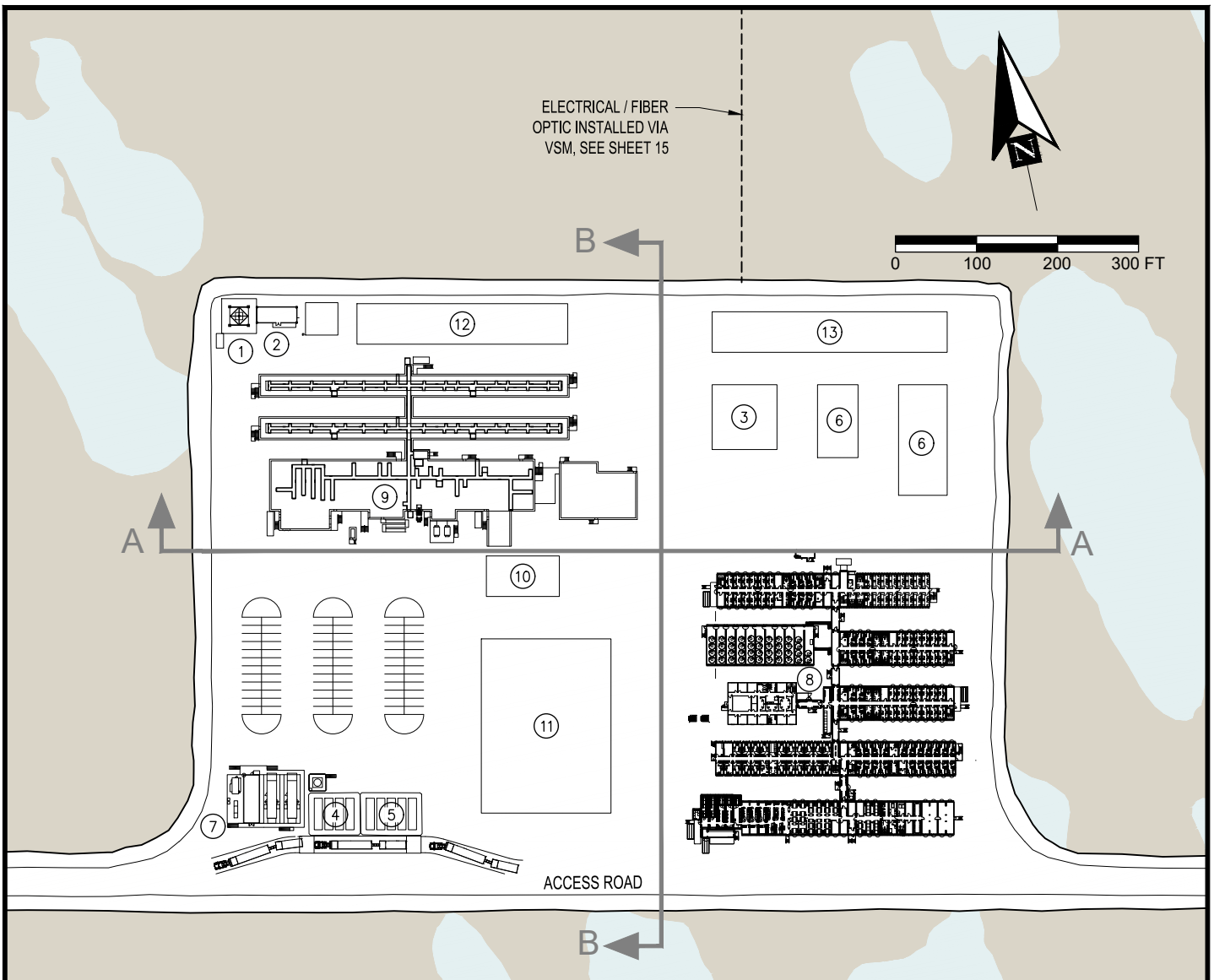
NANUSHUK DRILLSITE C (NDC) PAD LAYOUT



***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.

NANUSHUK DRILLSITE C (NDC) PAD SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **13** of **81** 2-20-26



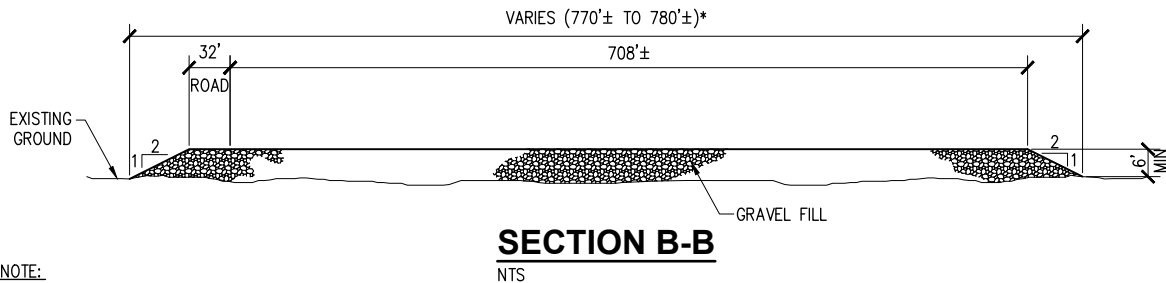
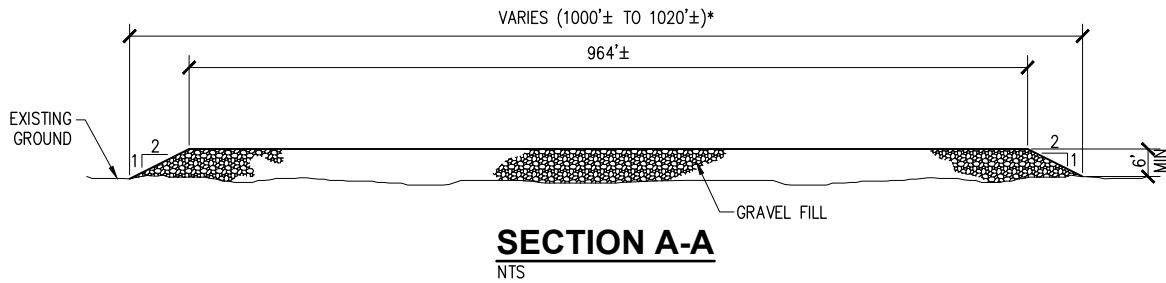
FACILITIES			
①	COMMUNICATIONS TOWER	⑧	TEMPORARY CONSTRUCTION CAMP(S)
②	COMMUNICATIONS MODULE	⑨	PERMANENT OPERATIONS CAMP AND OPERATIONS CONTROL CENTER
③	OPERATIONS AND MAINTENANCE BUILDING	⑩	AMBULANCE BAY
④	PERMANENT FUEL STORAGE / TANKER LOAD	⑪	TEMPORARY CONSTRUCTION FACILITIES
⑤	FUEL DEPOT	⑫	RESPONSE EQUIPMENT
⑥	WAREHOUSE	⑬	EQUIPMENT STAGING AND LAYDOWN
⑦	POWER GENERATOR		

NOTES:

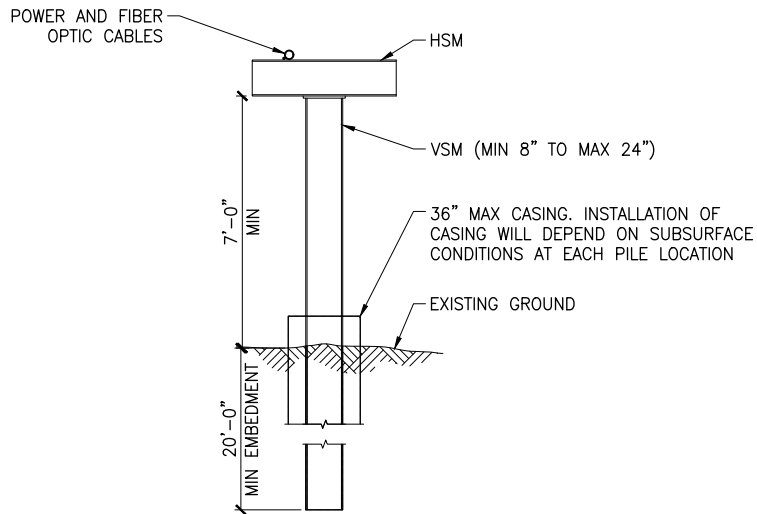
1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 15 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **14** of **81** 2-20-26

NANUSHUK OPERATIONS PAD (NOP)
LAYOUT



*NOTE:
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.



ELECTRICAL / FIBER OPTIC VSM

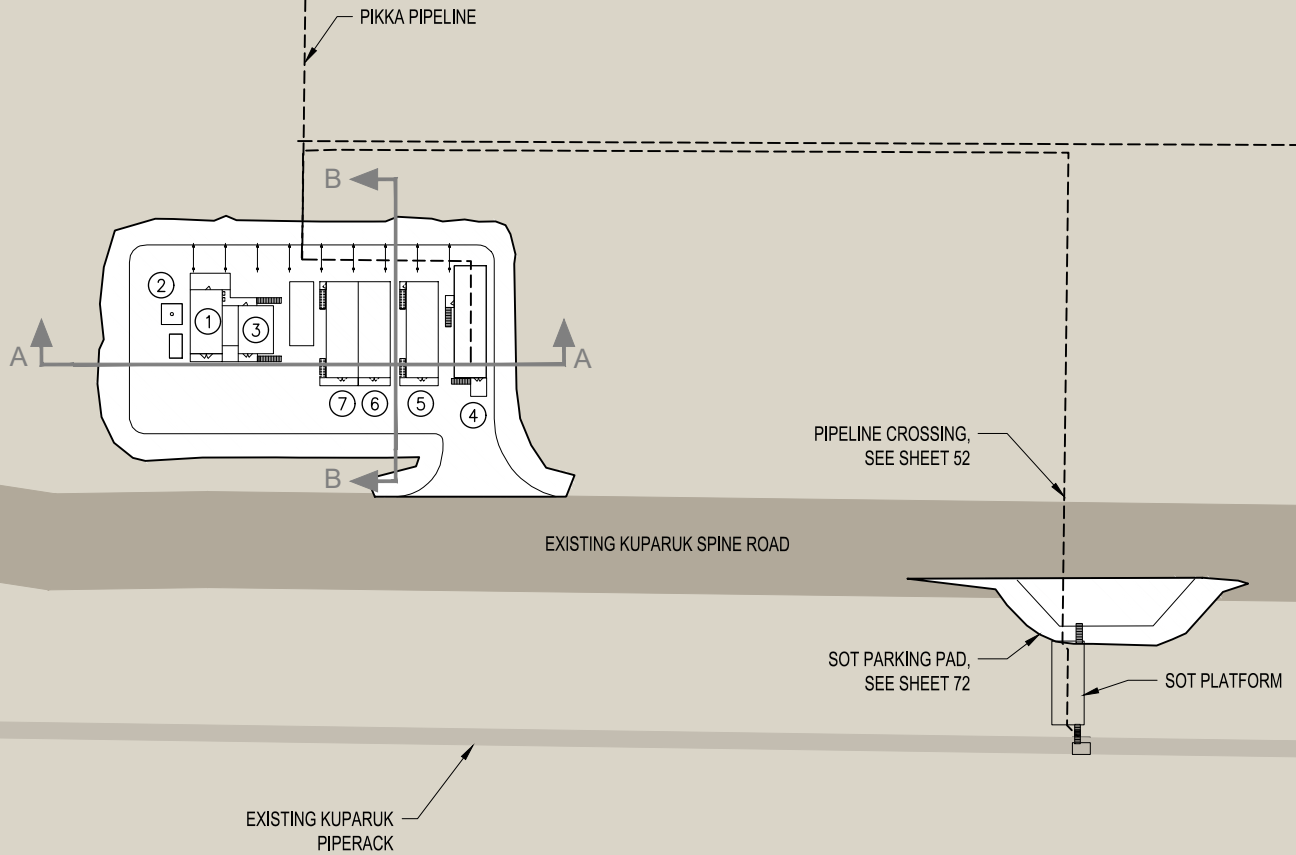
NTS

NANUSHUK OPERATIONS PAD (NOP)
SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **15** of **81** 2-20-26



FACILITIES	
①	E & I MODULE
②	COMMUNICATION TOWER
③	POWER GENERATION MODULE
④	PIGGING MODULE
⑤	SHIPPING PUMPS MODULE (FUTURE)
⑥	SEAWATER BOOSTER PUMPS MODULE (FUTURE)
⑦	SEAWATER PIGGING MODULE (FUTURE)



NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 17 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.

REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

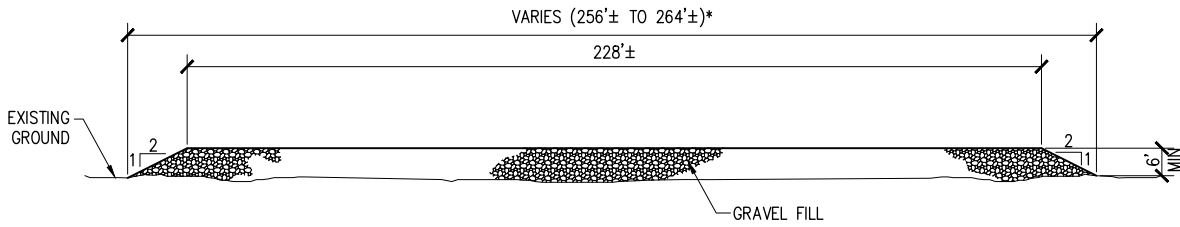
PROJECT: Pikka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

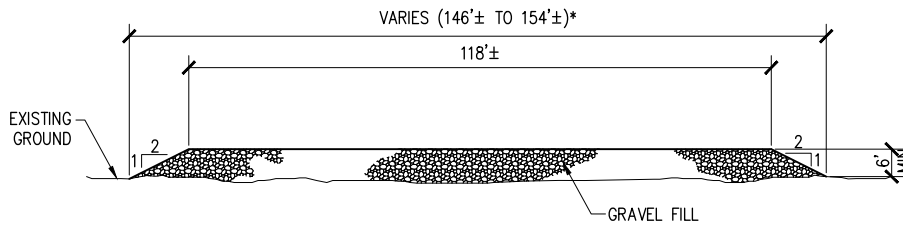
AT: North Slope Borough, AK

SHEET **16** of **81** 2-20-26

TIE-IN PAD (TIP) LAYOUT



SECTION A-A
NTS

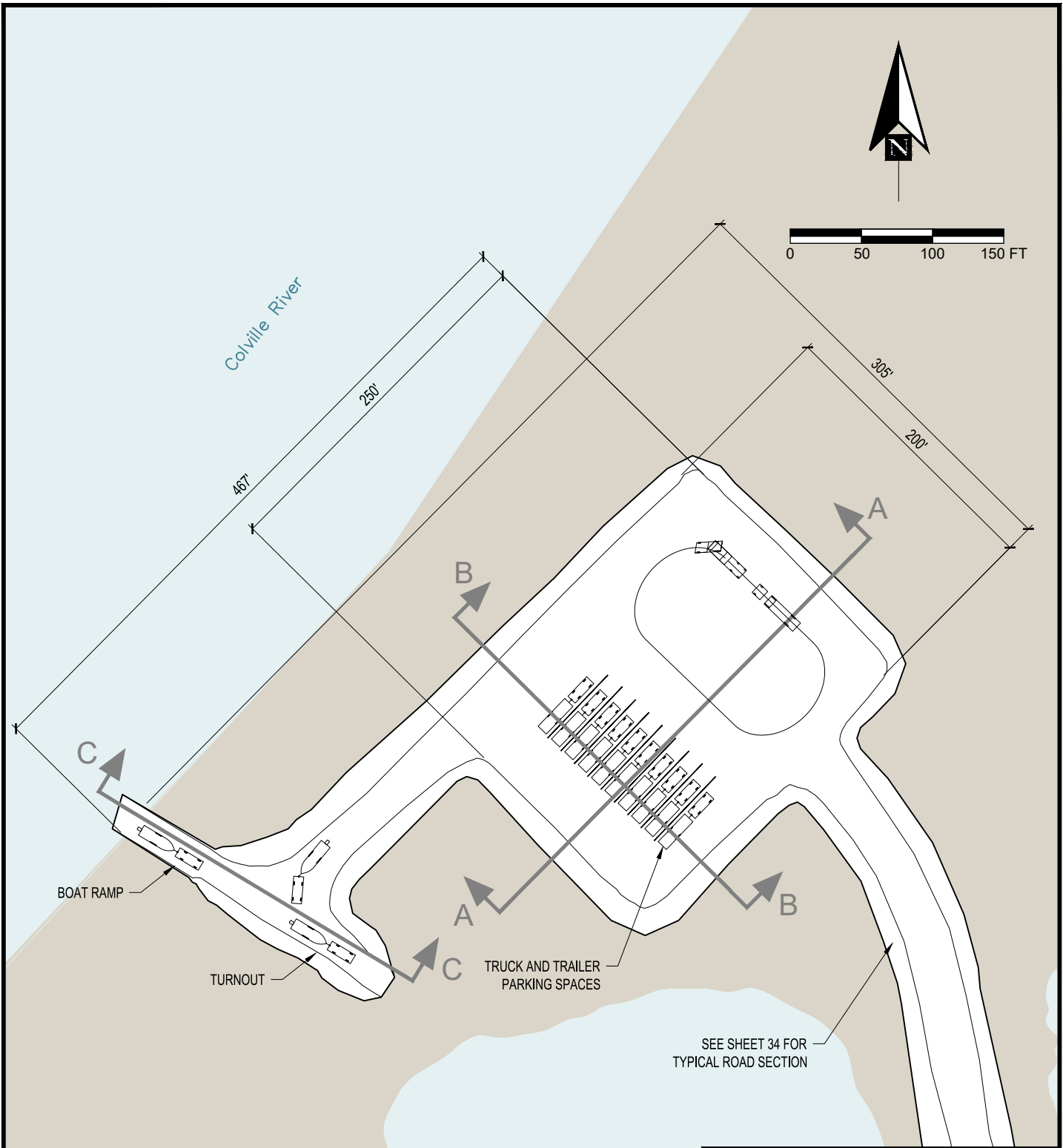


SECTION B-B
NTS

***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.

TIE-IN PAD (TIP) SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **17** of **81** 2-20-26



NOTES:

1. MINIMUM GRAVEL DEPTH 6.0' WITH 2:1 FILL SLOPES.
2. SEE SHEET 19 FOR PAD SECTIONS.
3. ACTUAL LAYOUT PENDING FINAL DESIGN.
4. EROSION PROTECTION AS NEEDED.

REFERENCE: POA-2015-00025

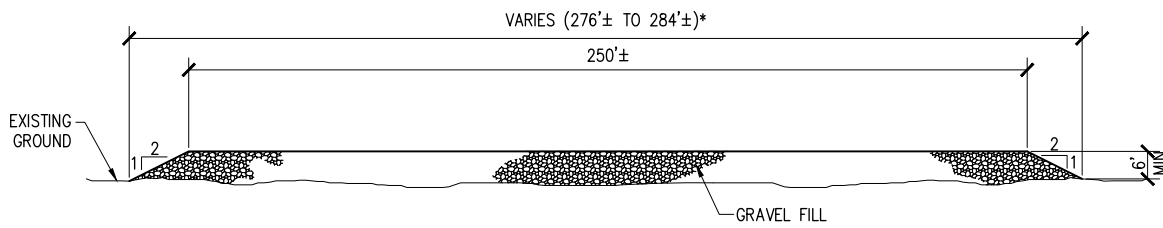
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

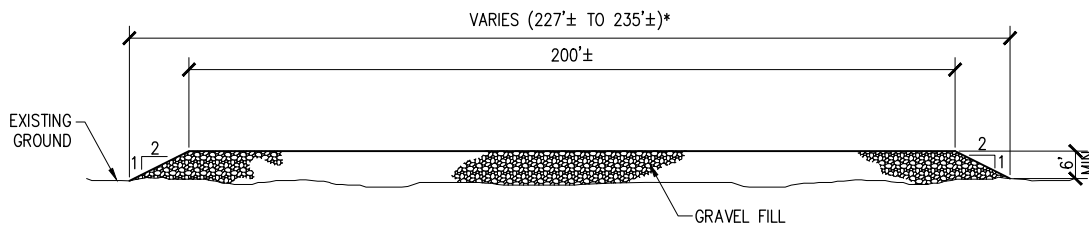
SHEET **18** of **81** 2-20-26

BOAT LAUNCH AND PAD PLAN



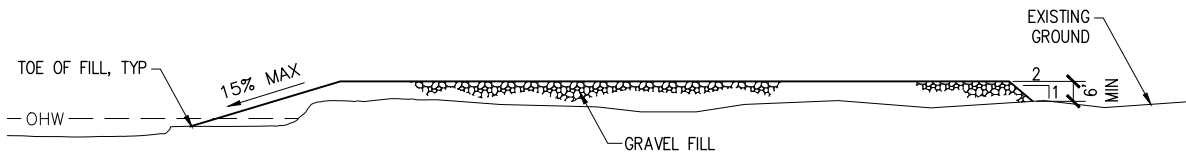
SECTION A-A

NTS



SECTION B-B

NTS



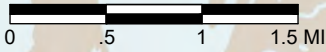
SECTION C-C

NTS

*NOTE:
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **19** of **81** 2-20-26

BOAT LAUNCH AND PAD SECTIONS

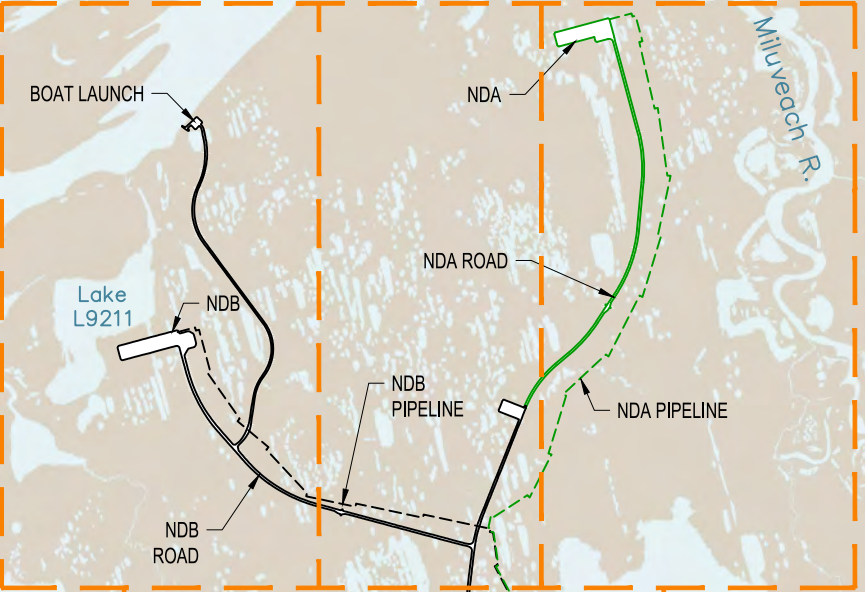


LEGEND

- PROPOSED GRAVEL ROAD
- - - PROPOSED PIPELINE
- PROPOSED PAD
- CONSTRUCTED GRAVEL ROAD
- - - CONSTRUCTED PIPELINE
- CONSTRUCTED PAD
- EXISTING ROAD
- - - EXISTING PIPELINE
- EXISTING PAD/FACILITY

SHEET 22

SHEET 21



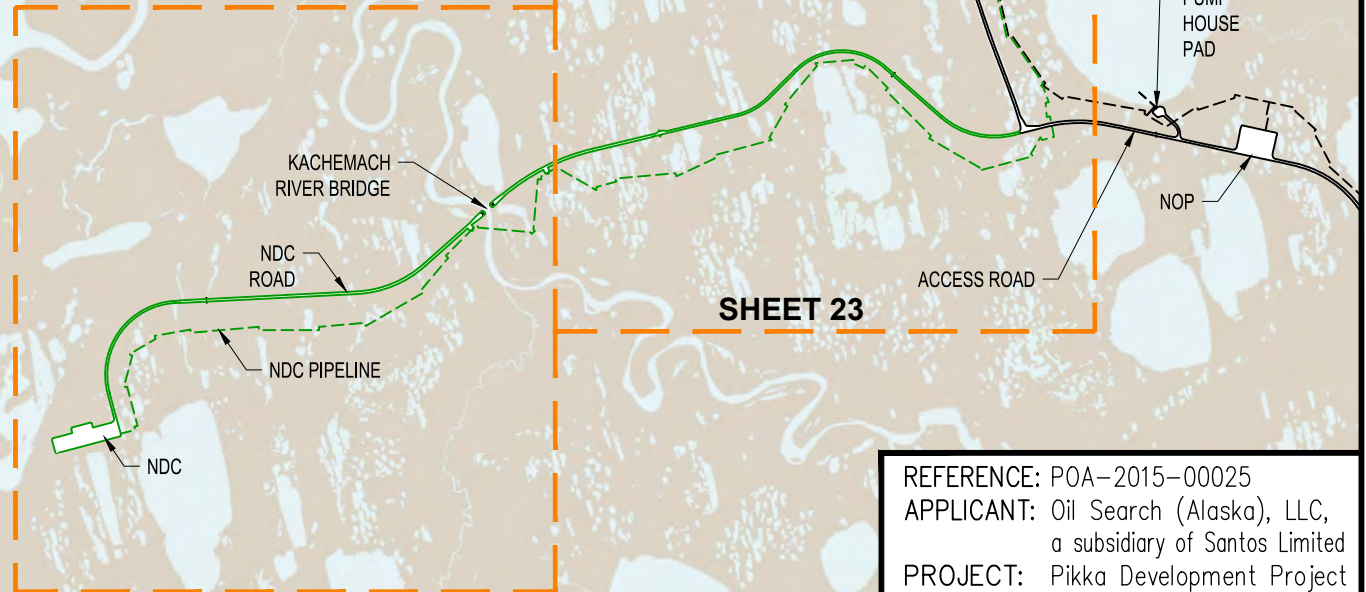
East Channel
Colville R.

Kachemach R.

Lake
MC7903

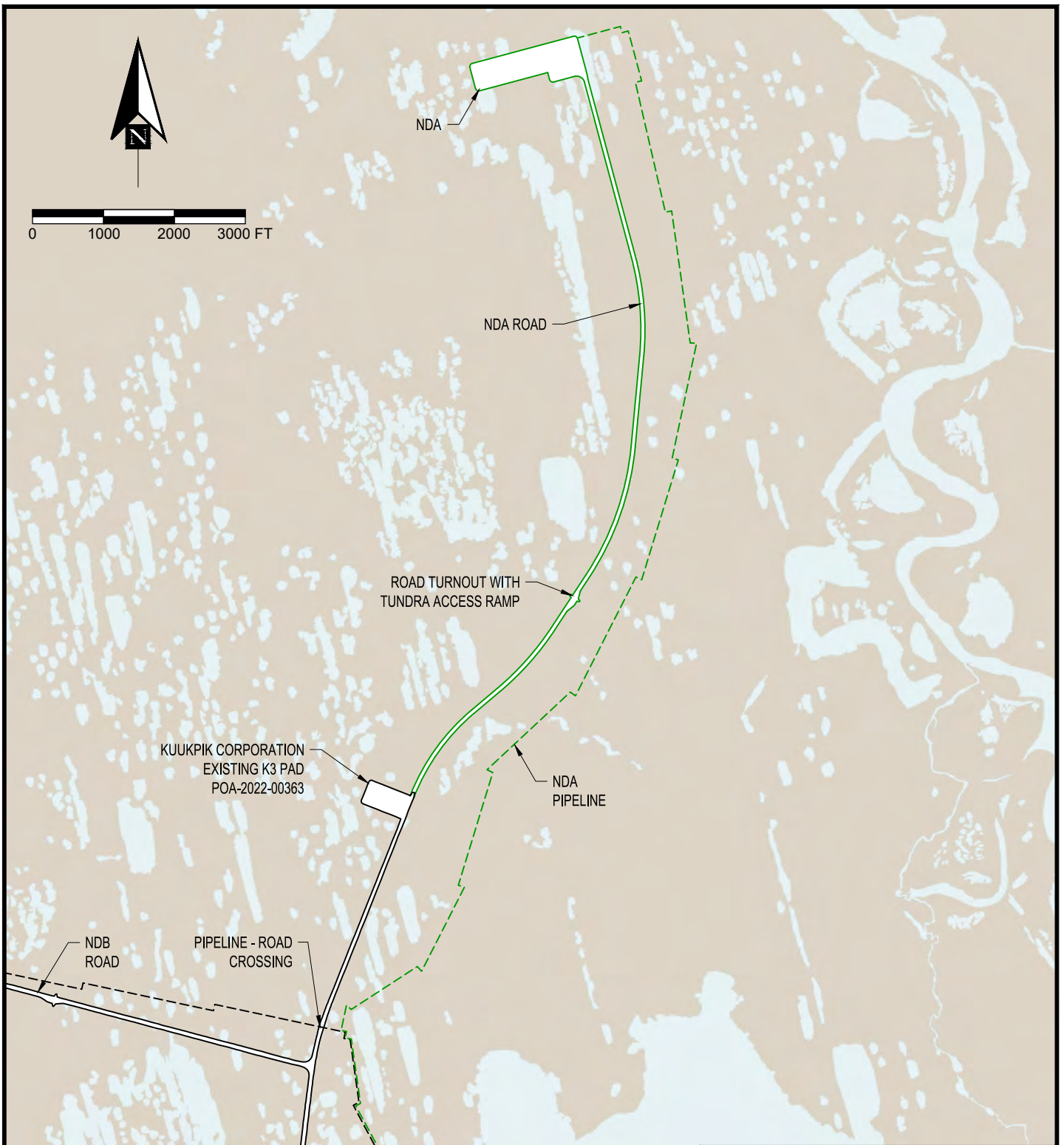
SHEET 24

SHEET 23



INFIELD ROADS AND PIPELINES OVERVIEW

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **20** of **81** 2-20-26

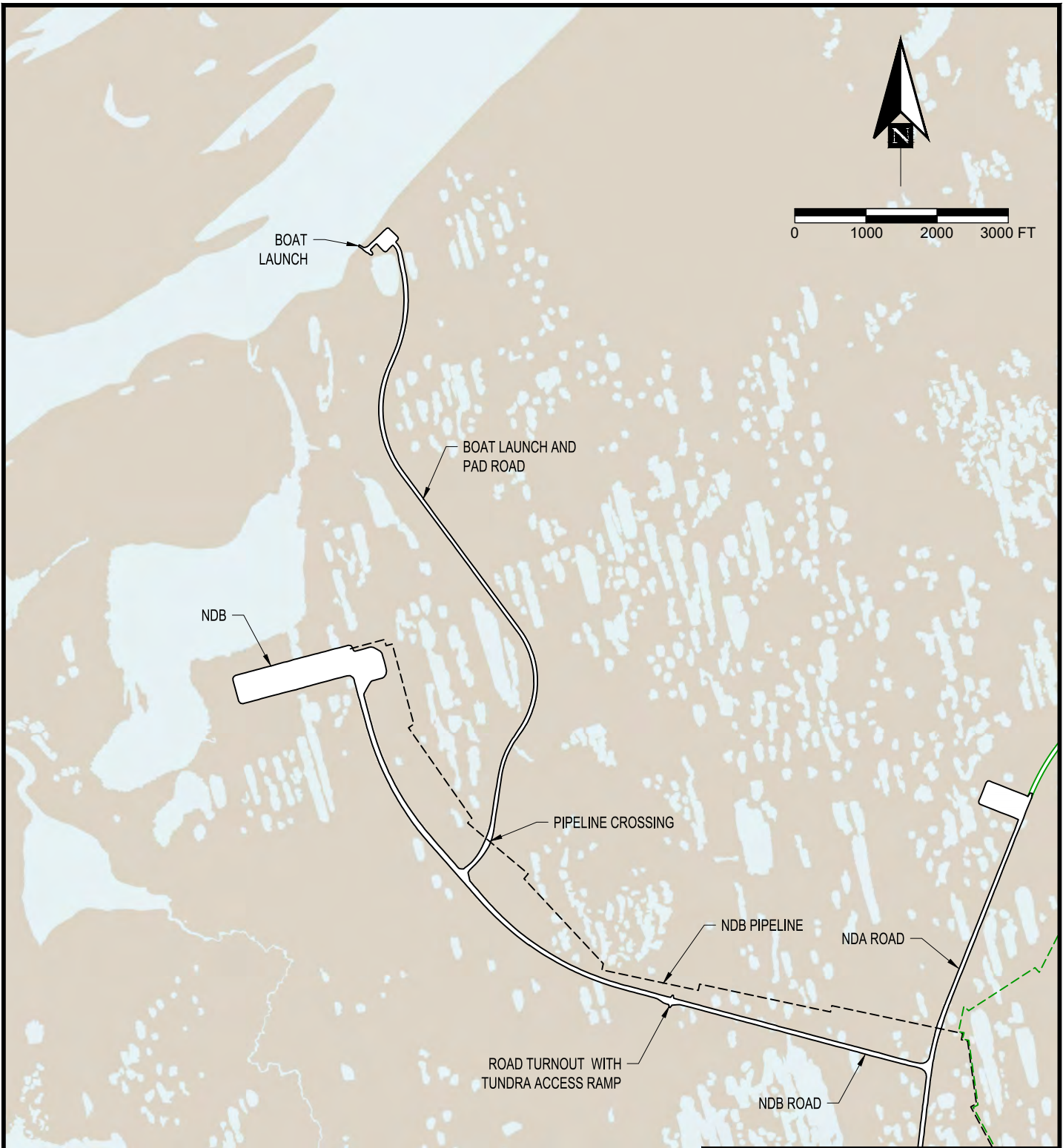


NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 20.

INFIELD ROADS AND PIPELINES
SHEET 1 OF 4

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **21** of **81** 2-20-26

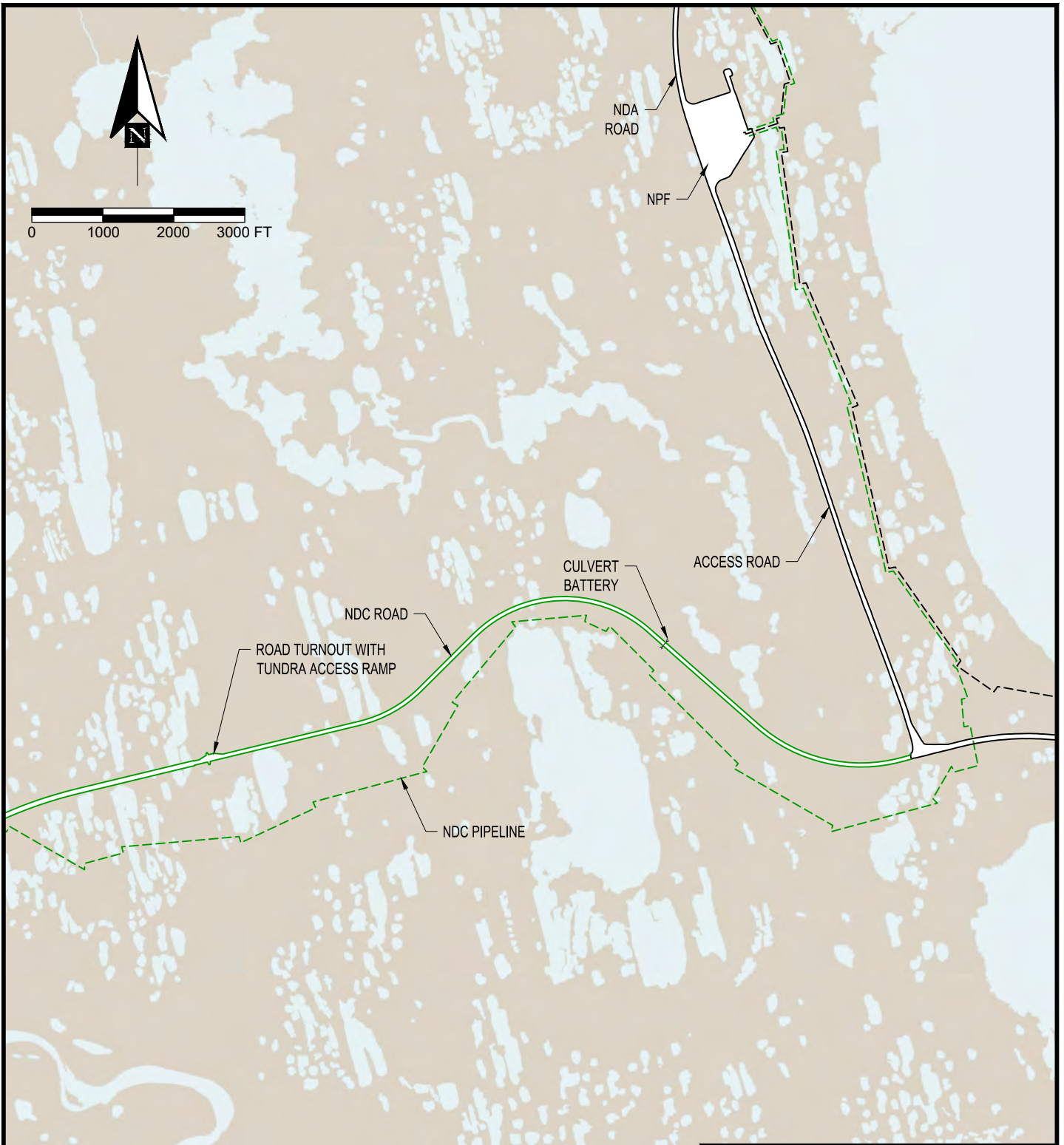


NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 20.

INFIELD ROADS AND PIPELINES
SHEET 2 OF 4

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **22** of **81** 2-20-26



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 20.

REFERENCE: POA-2015-00025

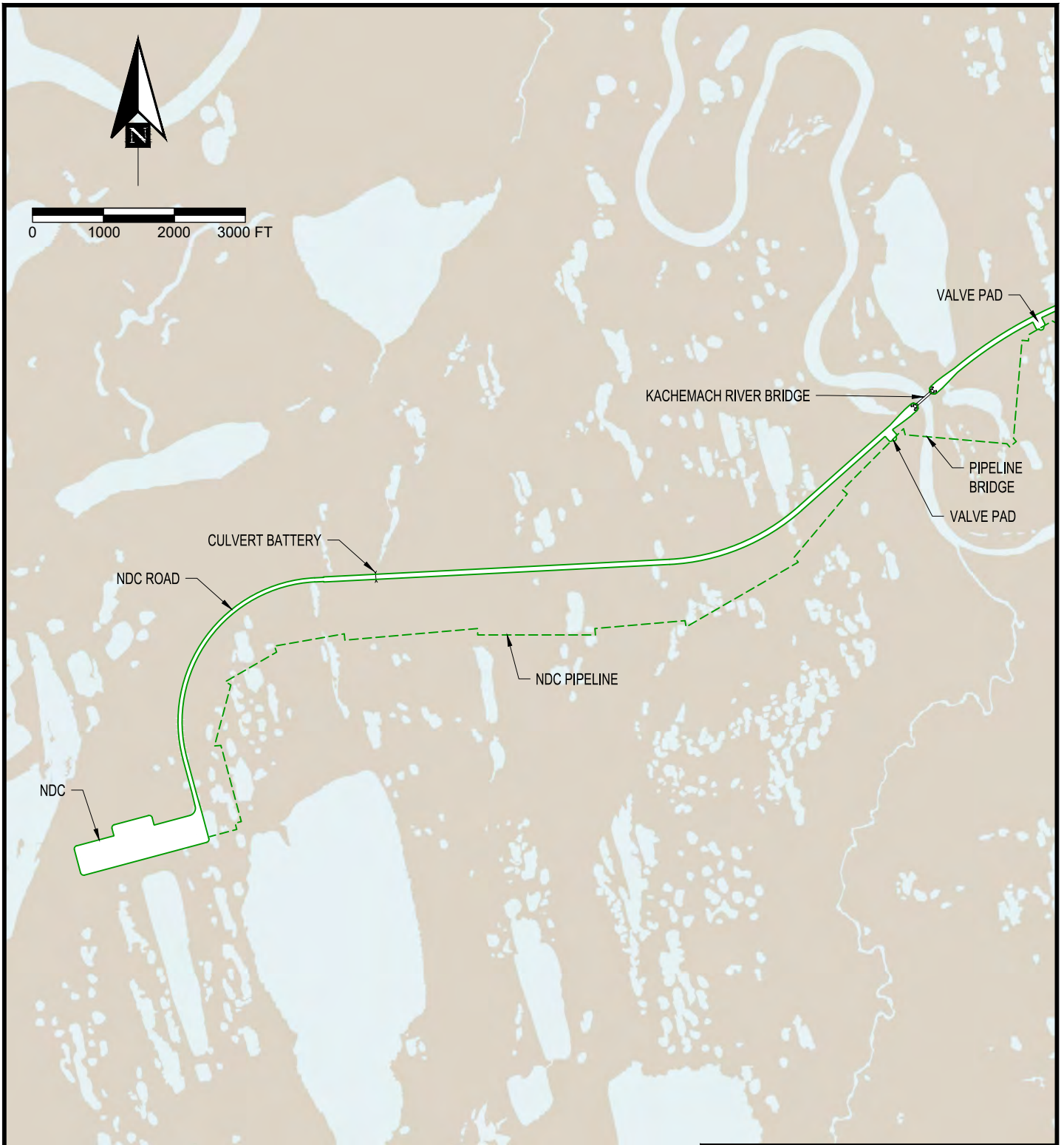
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **23** of **81** 2-20-26

INFIELD ROADS AND PIPELINES
SHEET 3 OF 4



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 20.

INFIELD ROADS AND PIPELINES
SHEET 4 OF 4

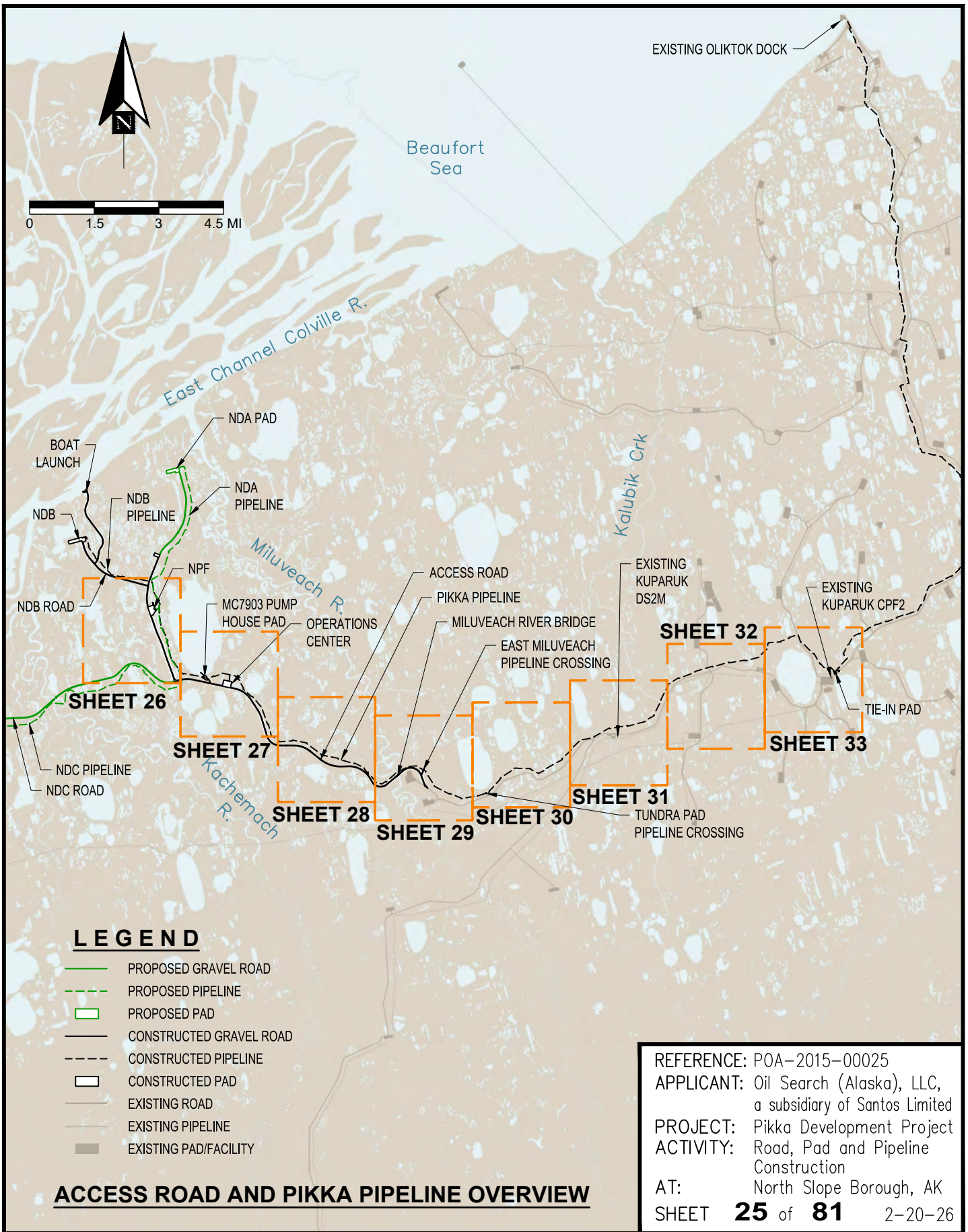
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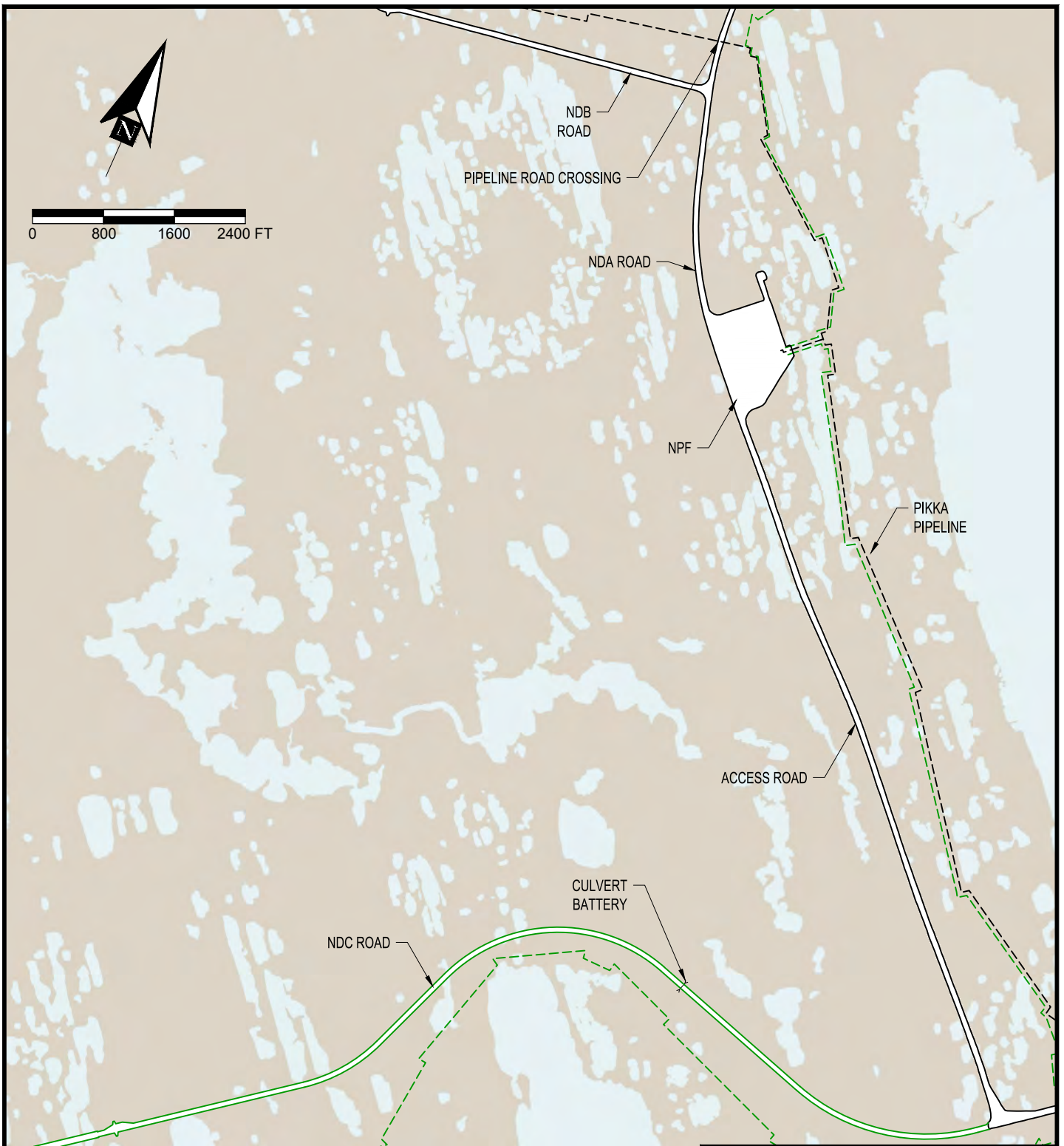
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **24** of **81** 2-20-26



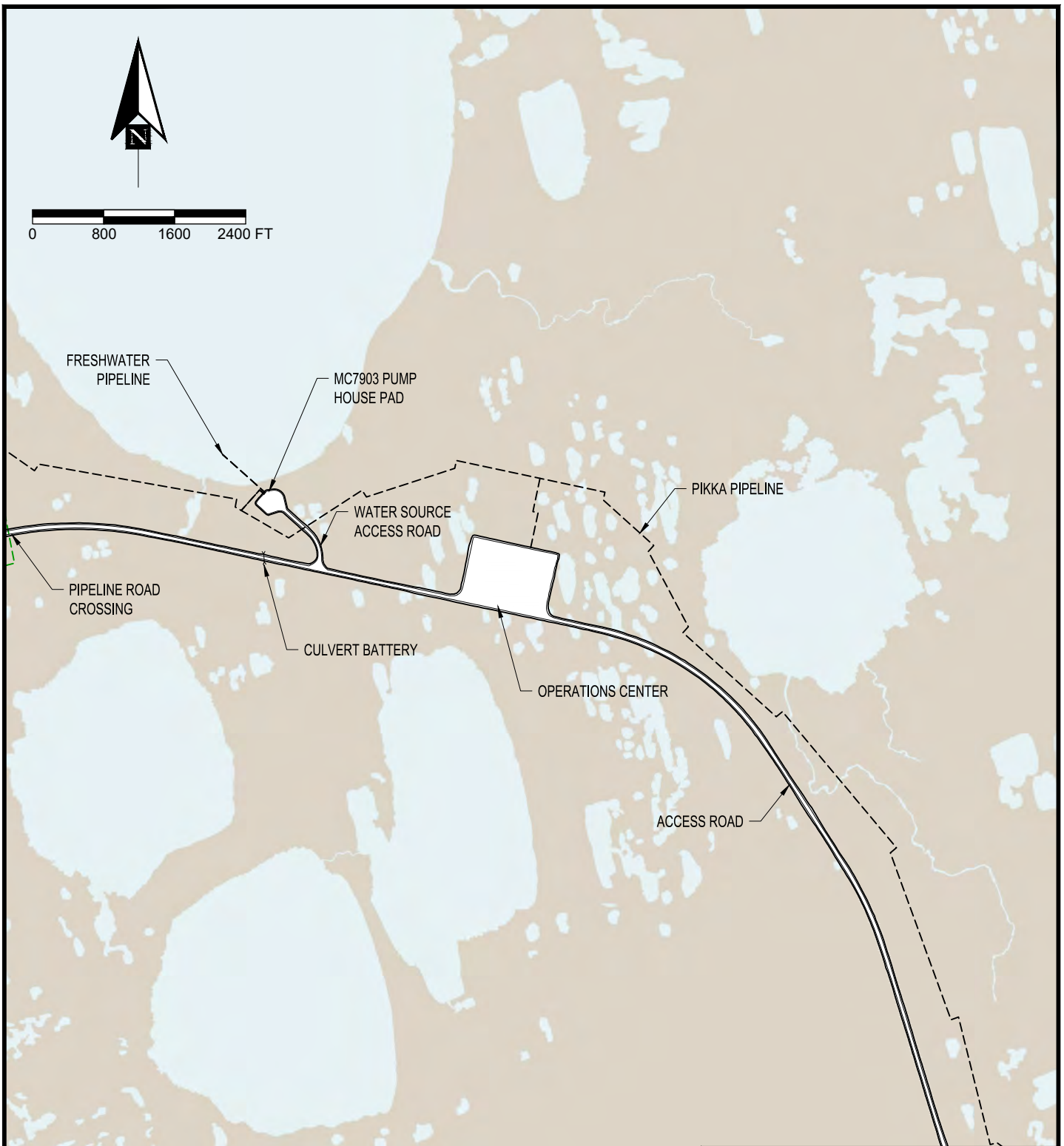


NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 1 OF 8

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **26** of **81** 2-20-26

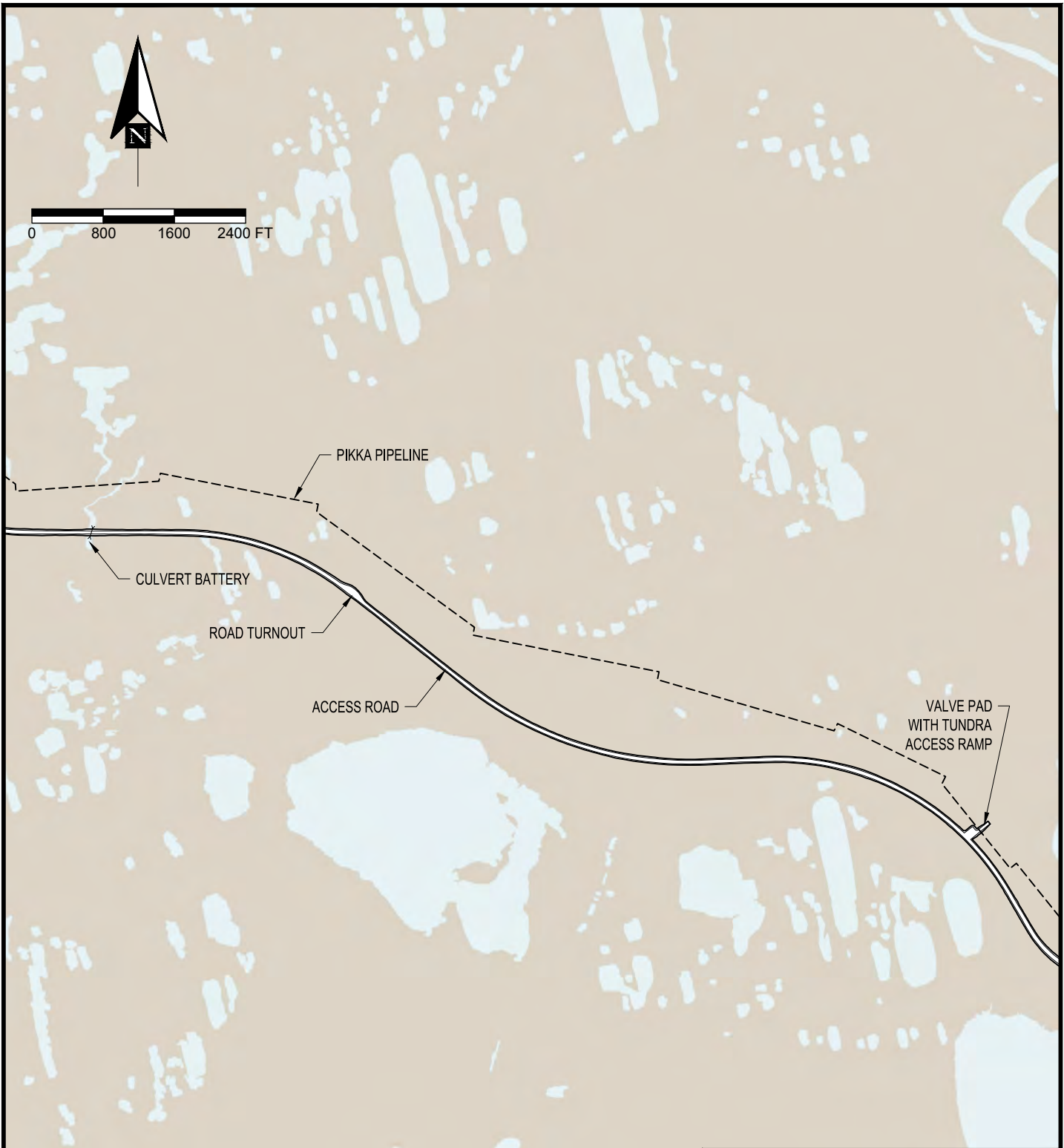


NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 2 OF 8

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **27** of **81** 2-20-26

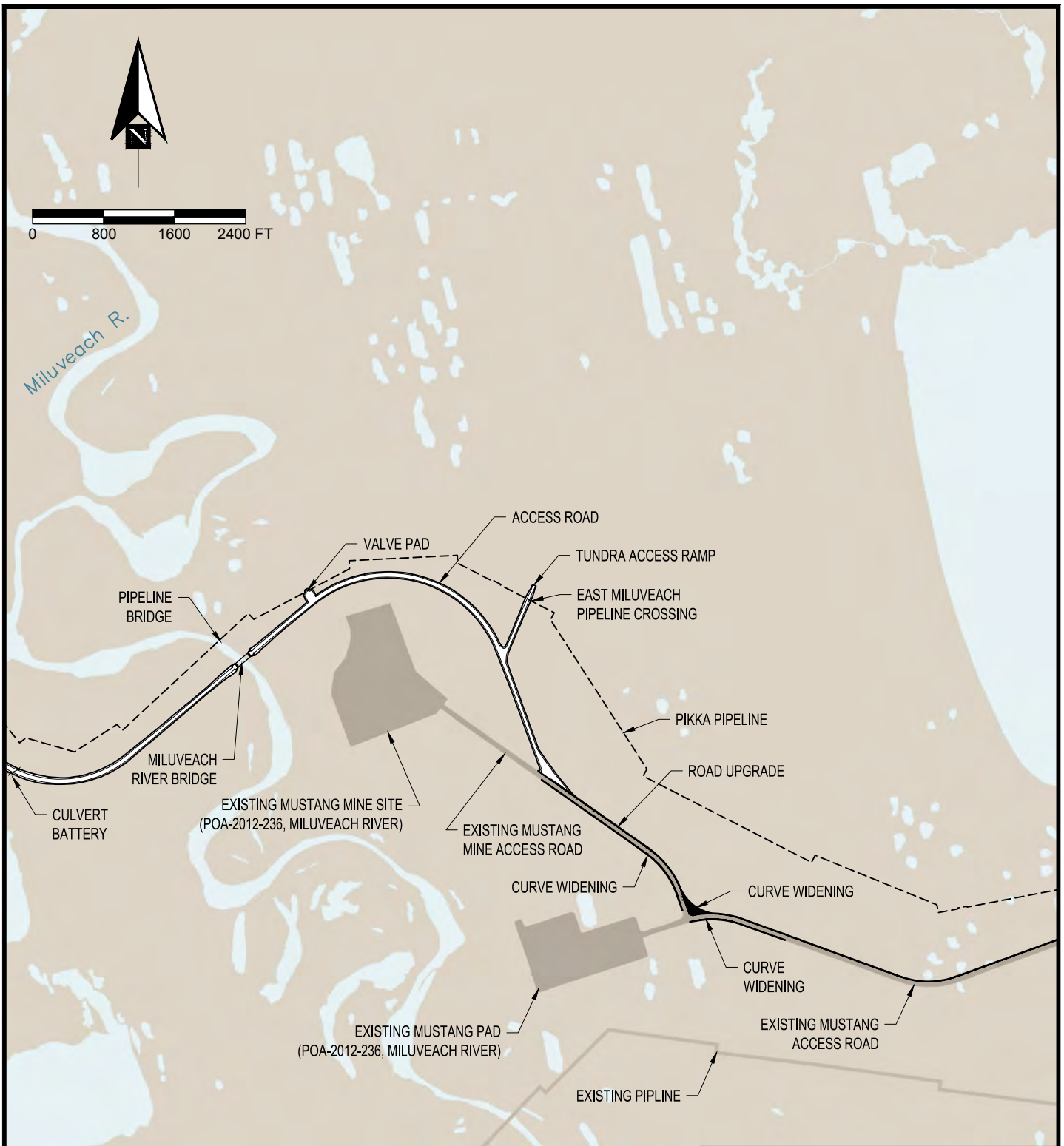


NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 3 OF 8

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **28** of **81** 2-20-26



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

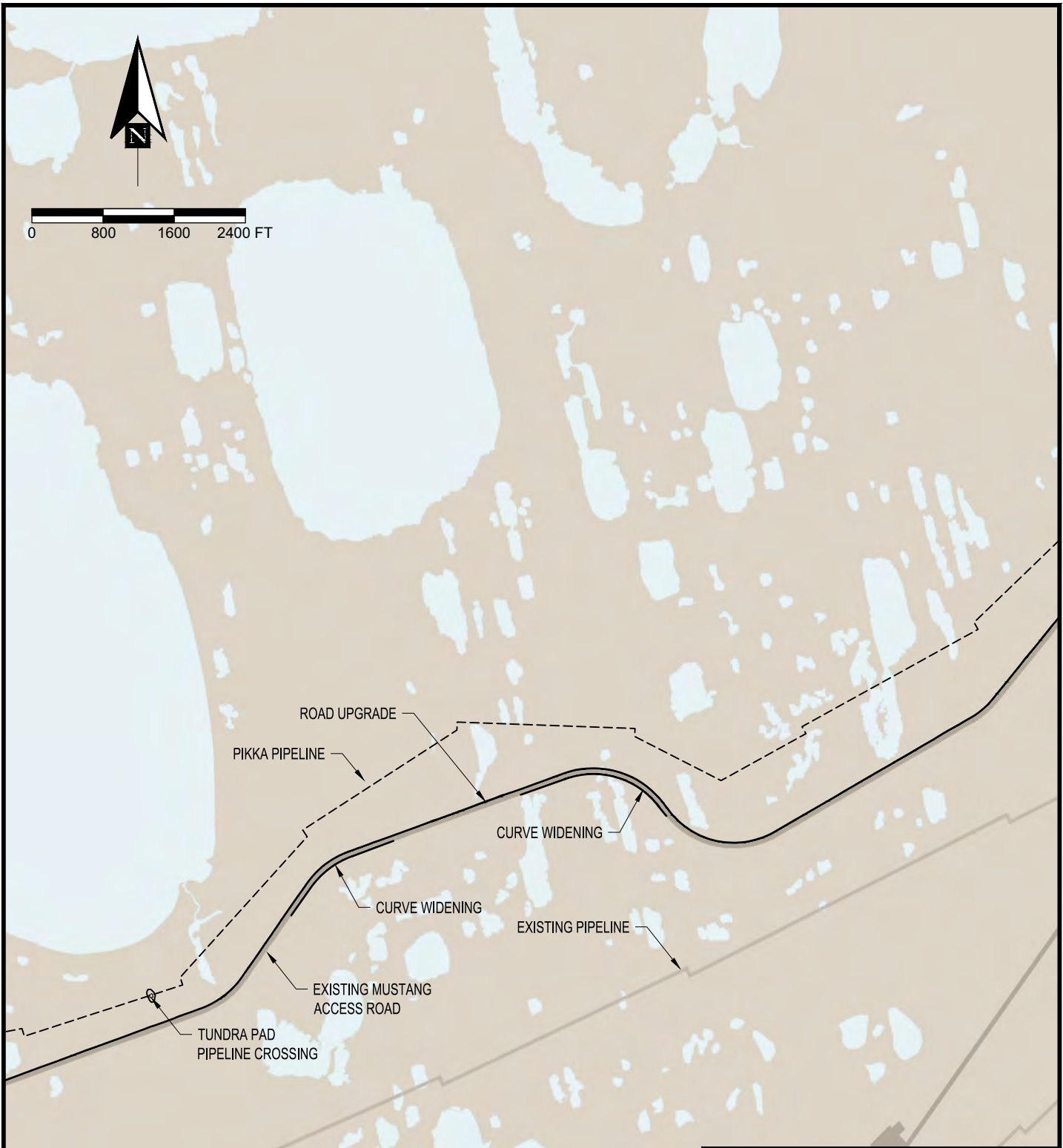
PROJECT: Pikka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **29** of **81** 2-20-26

ACCESS ROAD AND PIKKA PIPELINE
SHEET 4 OF 8



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 5 OF 8

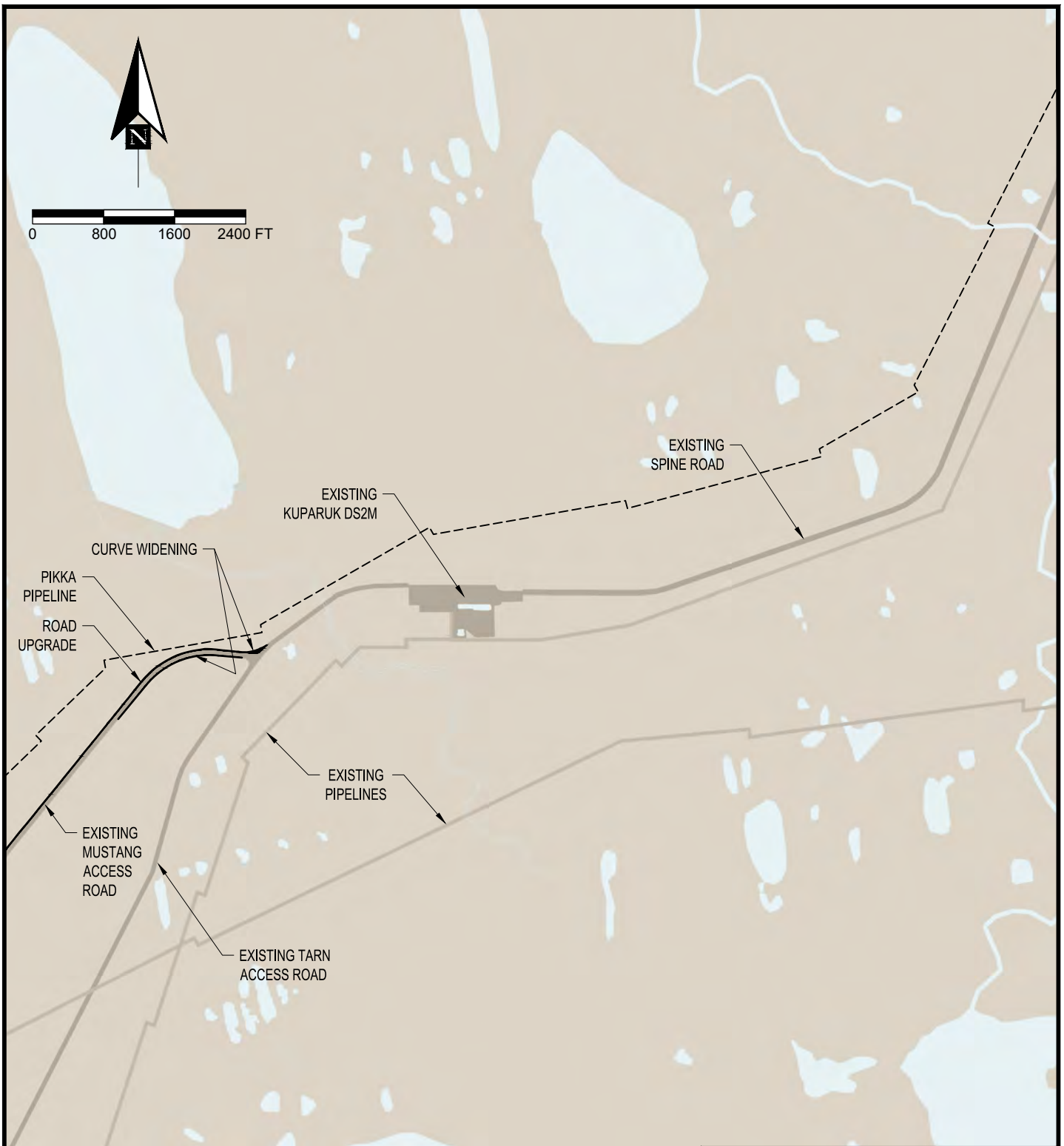
REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **30** of **81** 2-20-26



NOTES:

1. CROSS DRAINAGE CULVERTS AND CULVERT BATTERIES INSTALLED AS NEEDED TO MAINTAIN HYDROLOGIC REGIME TO THE FULLEST EXTENT POSSIBLE.
2. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 6 OF 8

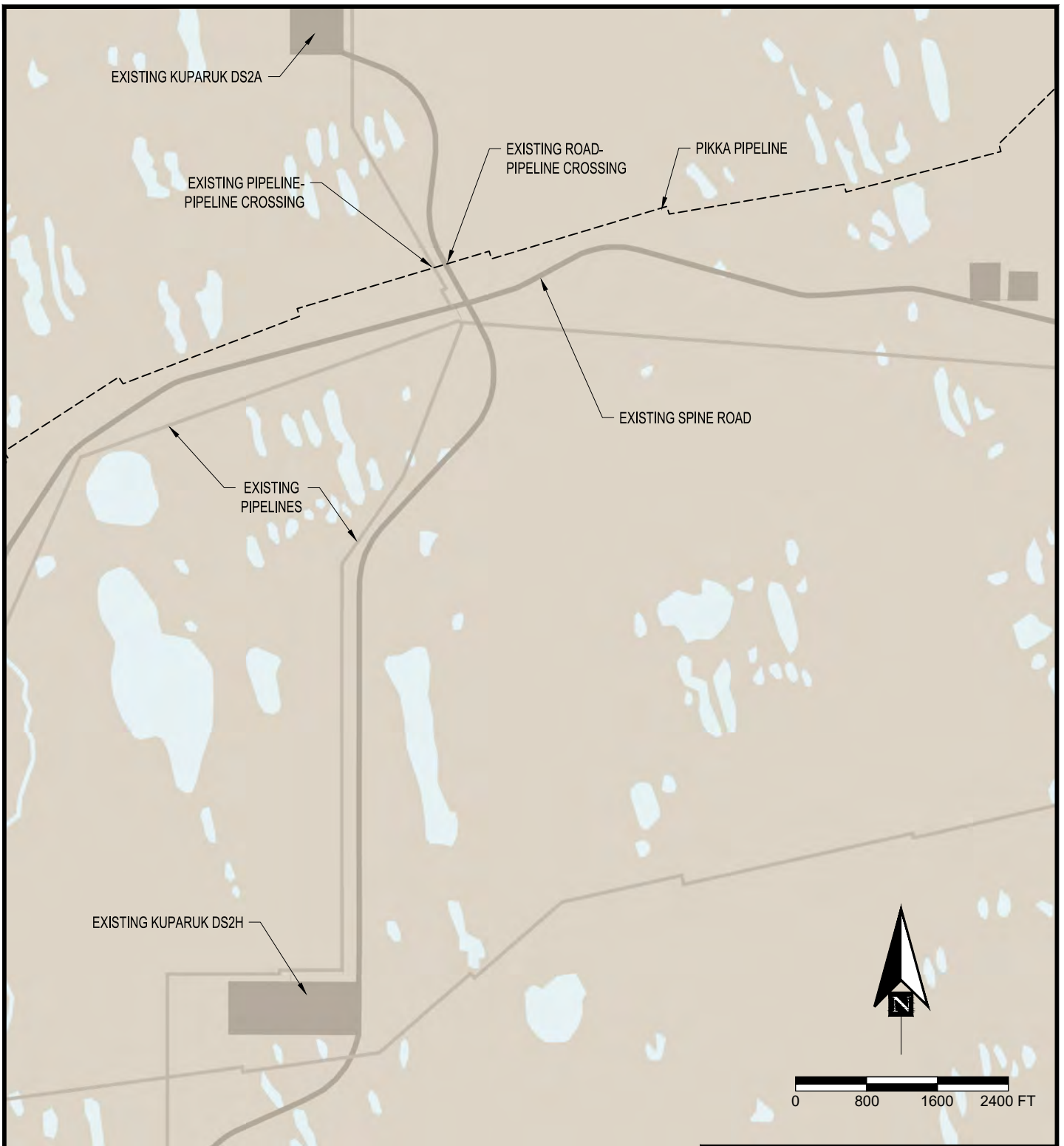
REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **31** of **81** 2-20-26

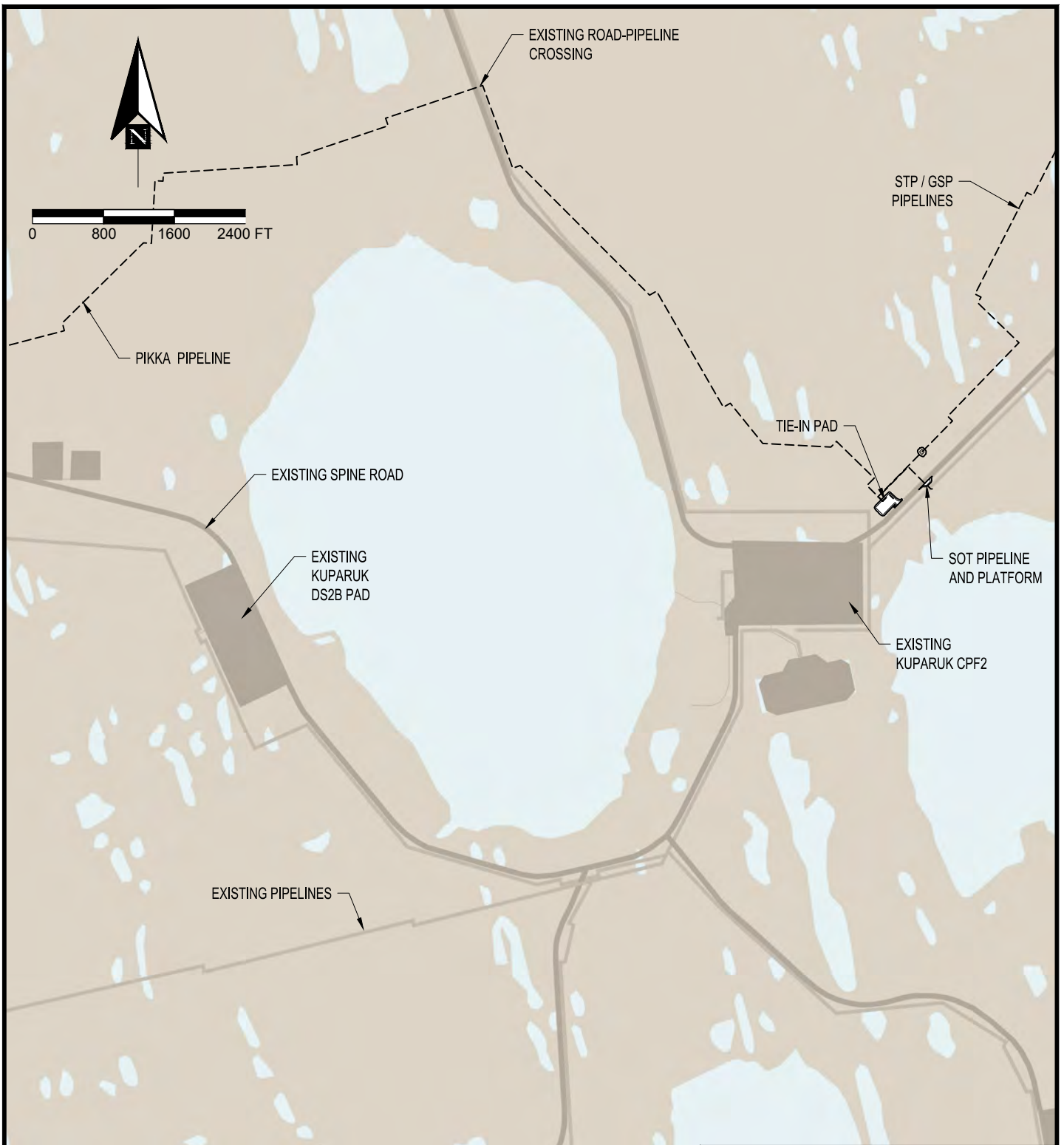


NOTES:

1. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 7 OF 8

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **32** of **81** 2-20-26



NOTES:

1. SEE LEGEND, SHEET 25.

ACCESS ROAD AND PIKKA PIPELINE
SHEET 8 OF 8

REFERENCE: POA-2015-00025

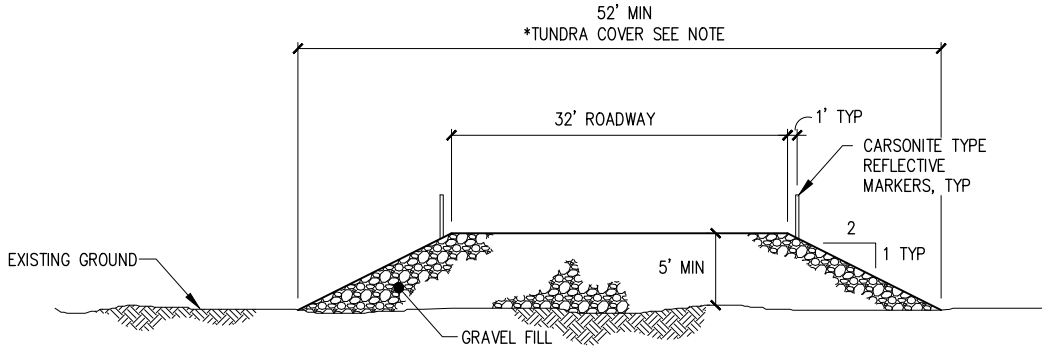
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

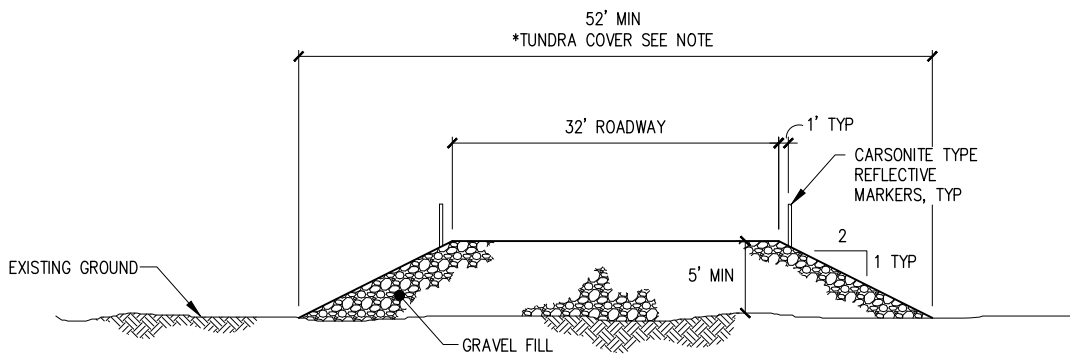
AT: North Slope Borough, AK

SHEET **33** of **81** 2-20-26



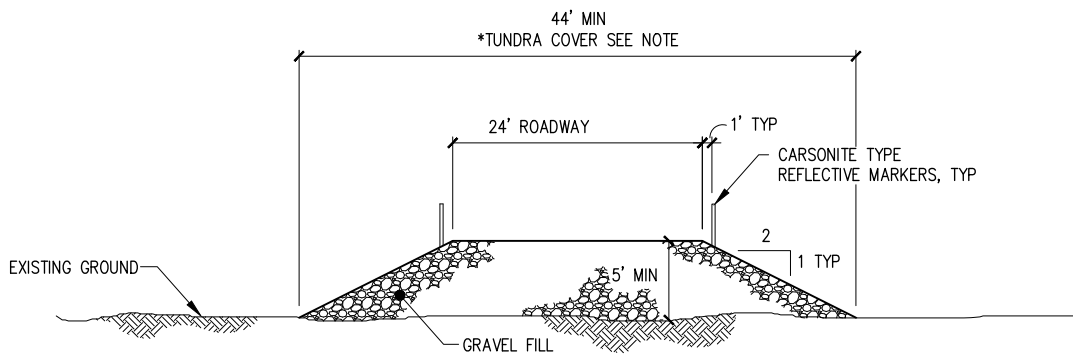
TYPICAL GRAVEL ACCESS ROAD SECTION

NTS



TYPICAL GRAVEL INFIELD ROAD SECTION

NTS



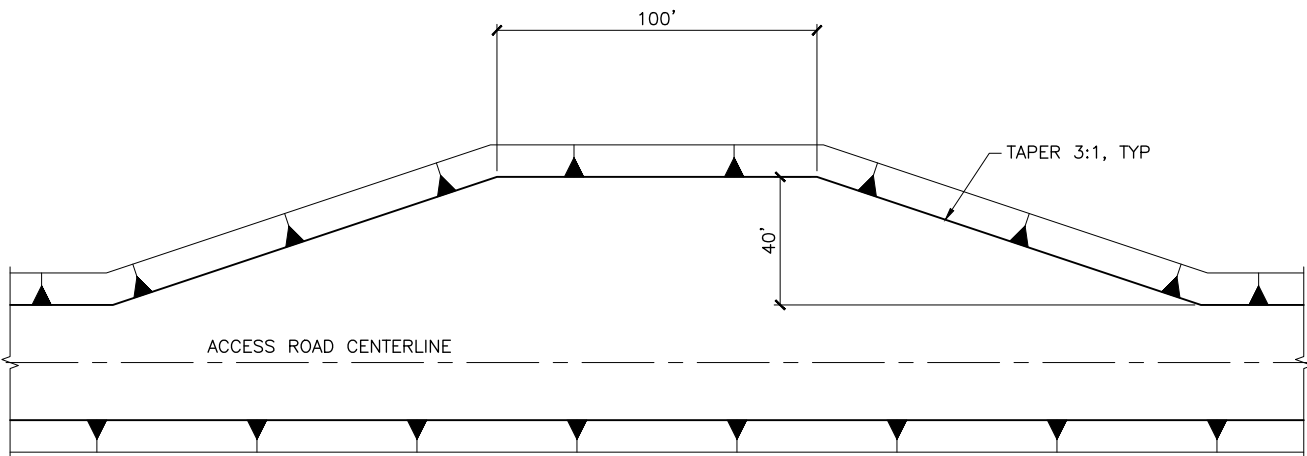
TYPICAL BOAT LAUNCH ROAD SECTION

NTS

*NOTE:
MINIMUM TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS WILL
VARY BASED UPON SITE CONDITIONS.

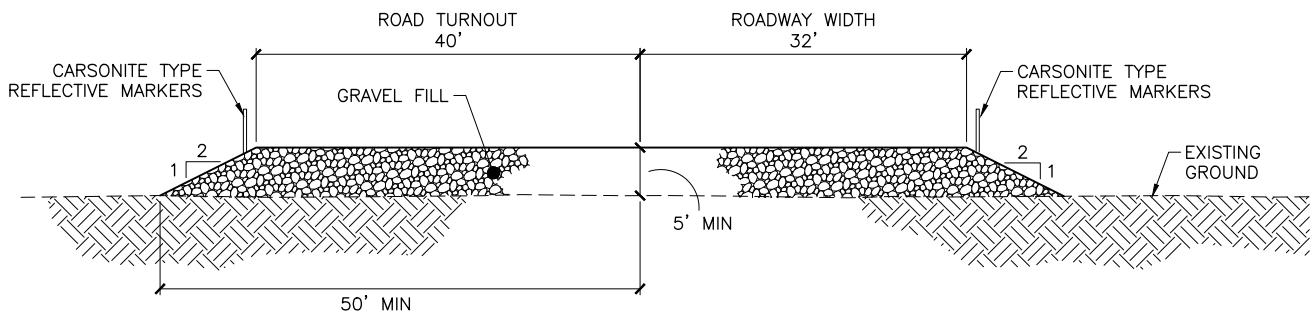
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **34** of **81** 2-20-26

TYPICAL ROAD SECTIONS



PLAN

NTS



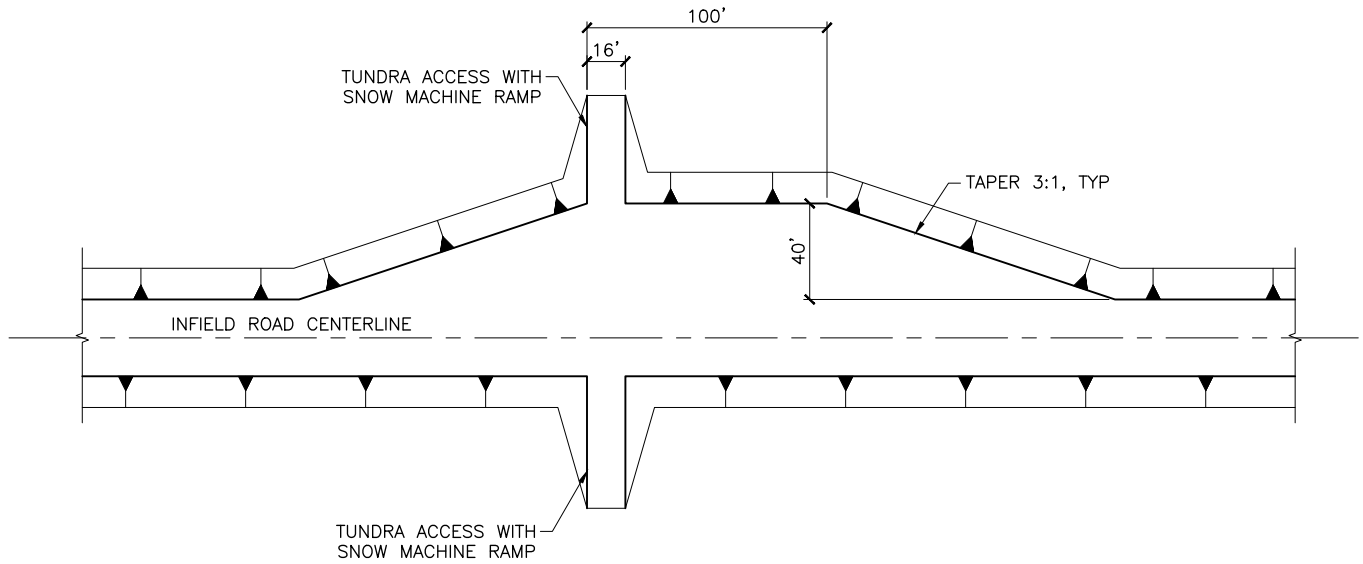
TYPICAL TRANSVERSE SECTION

NTS

NOTE:
GRAVEL EMBANKMENT WIDTH WILL
VARY BASED UPON LOCAL
TOPOGRAPHY.

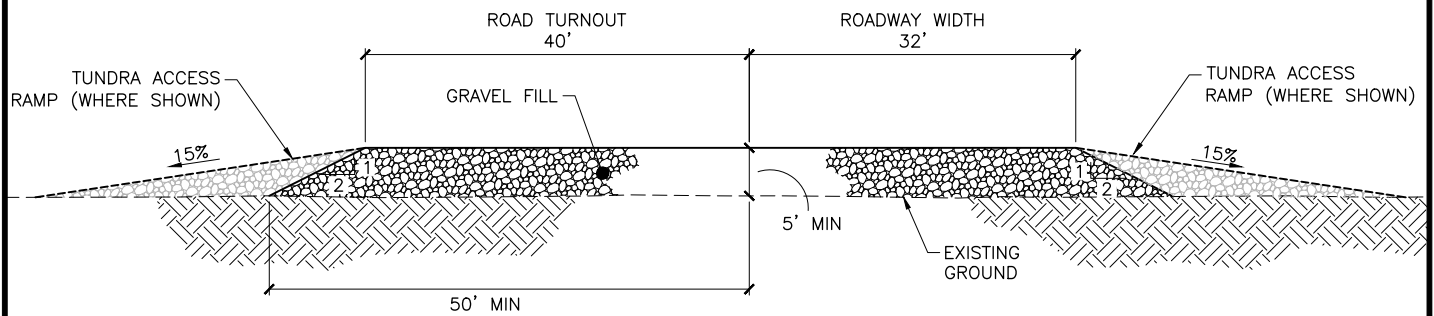
TYPICAL ROAD TURNOUT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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ROAD TURNOUT WITH TUNDRA ACCESS RAMP PLAN

NTS



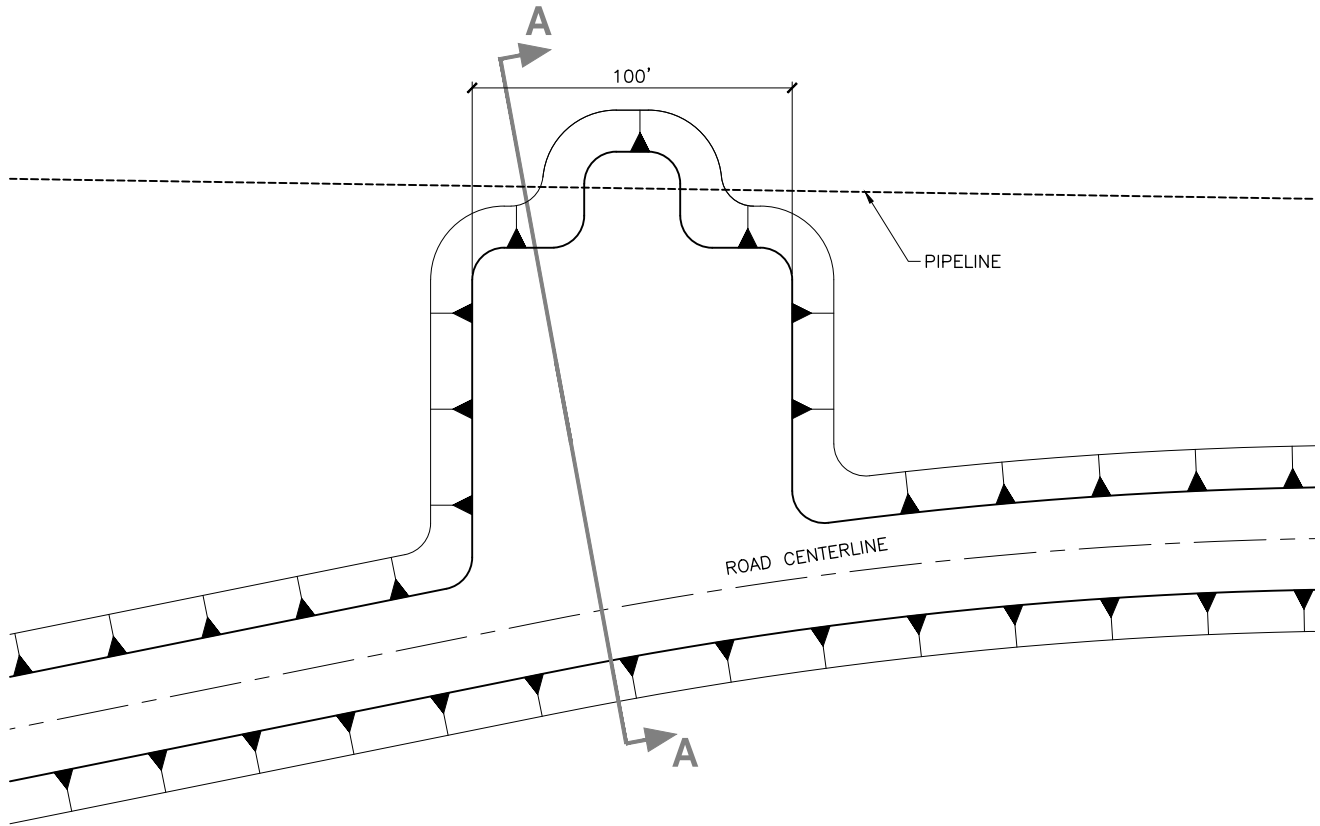
ROAD TURNOUT WITH TUNDRA ACCESS RAMP TRANSVERSE SECTION

NTS

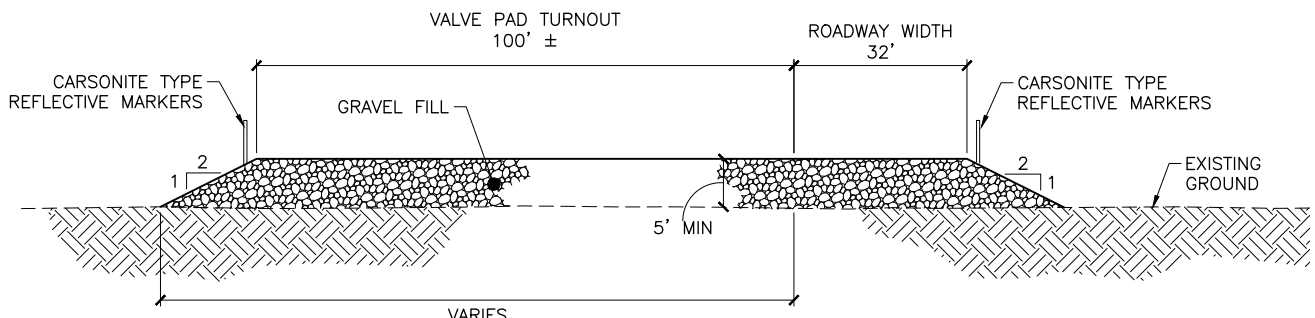
NOTE:
GRAVEL EMBANKMENT WIDTH WILL
VARY BASED UPON LOCAL
TOPOGRAPHY.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **36A** of **81** 2-20-26

ROAD TURNOUTS WITH TUNDRA ACCESS RAMPS



VALVE PAD PLAN
NTS

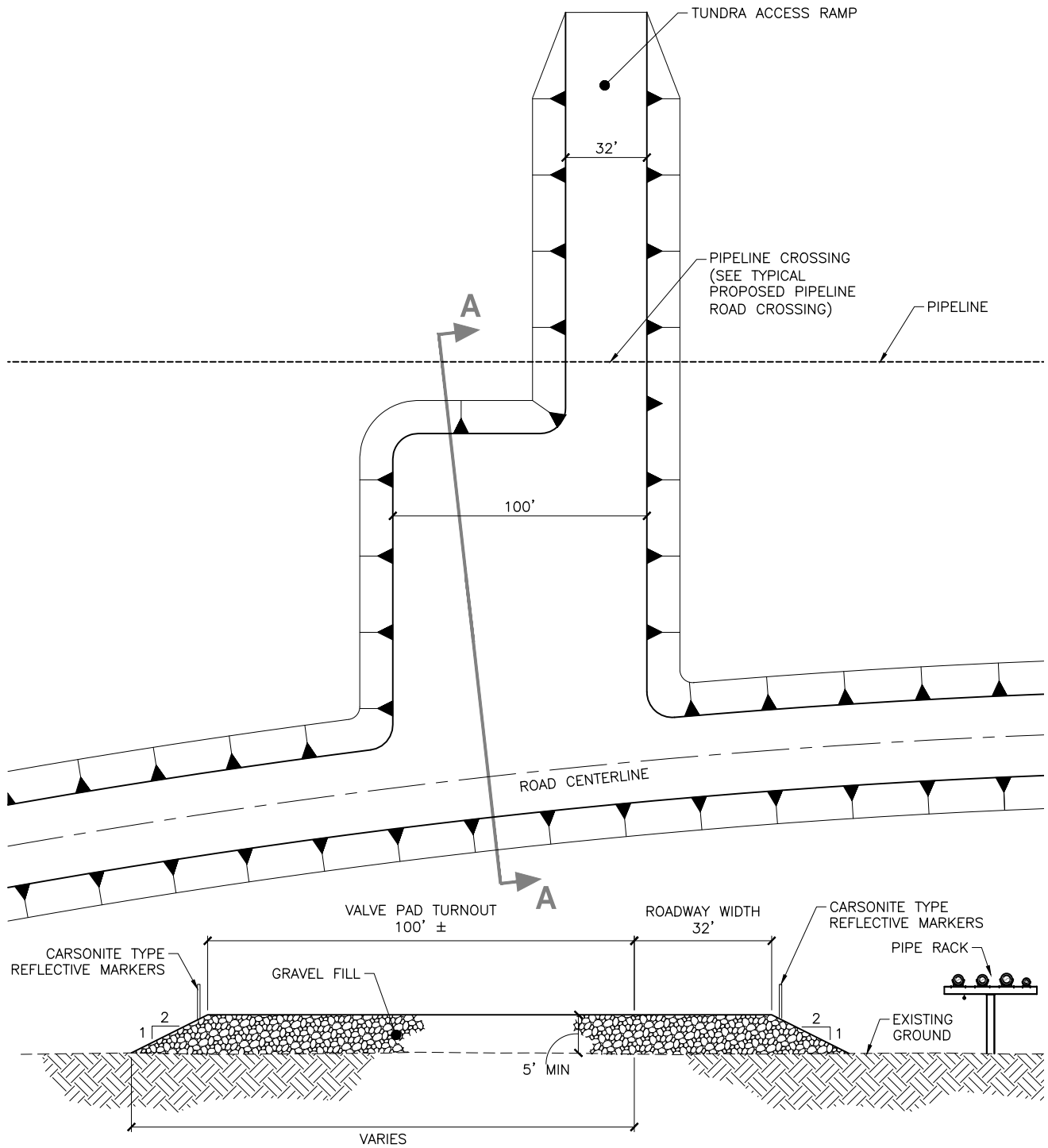


TYPICAL VALVE PAD SECTION
NTS

- NOTE:**
1. GRAVEL EMBANKMENT WIDTH WILL VARY BASED UPON LOCAL TOPOGRAPHY.
 2. 5' MIN THICKNESS FOR VALVE PADS TO MATCH ADJACENT ROAD THICKNESS.

TYPICAL VALVE PAD

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **36B** of **81** 2-20-26



TYPICAL VALVE PAD WITH TUNDRA ACCESS RAMP SECTION

NTS

NOTE:

1. GRAVEL EMBANKMENT WIDTH WILL VARY BASED UPON LOCAL TOPOGRAPHY.
2. 5' MIN THICKNESS FOR VALVE PADS TO MATCH ADJACENT ROAD THICKNESS.

TYPICAL VALVE PAD WITH TUNDRA ACCESS RAMP

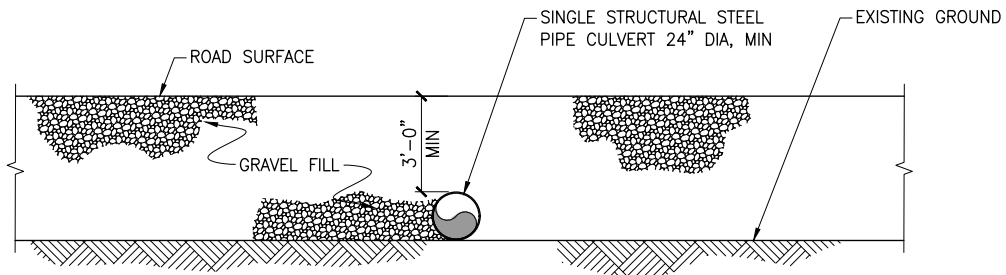
REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

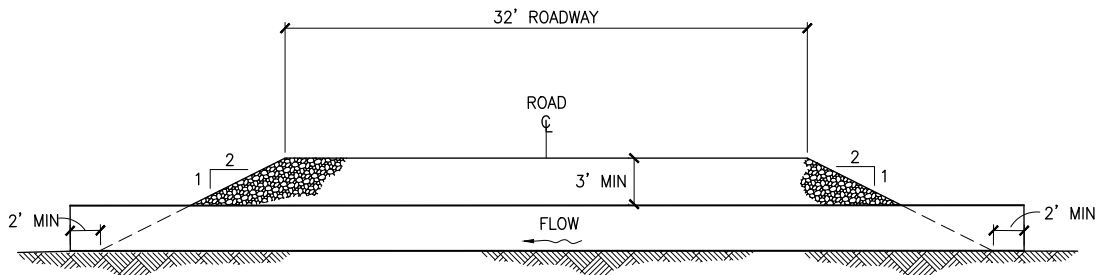
PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

AT: North Slope Borough, AK

SHEET **36C** of **81** 2-20-26



CROSS DRAINAGE CULVERT ELEVATION

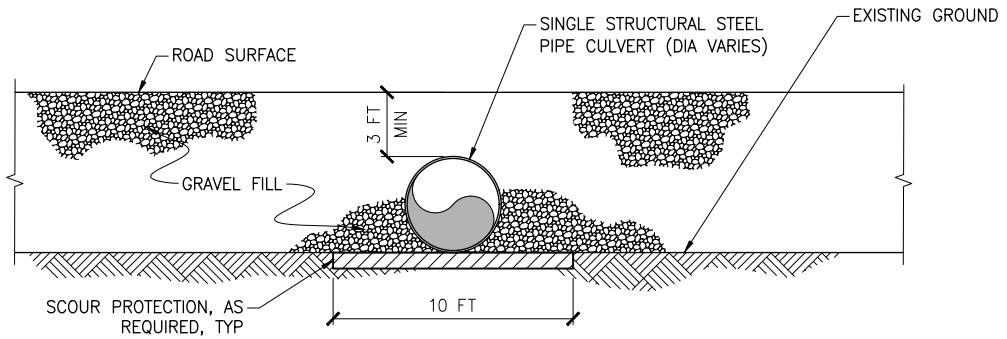


CROSS DRAINAGE CULVERT SECTION

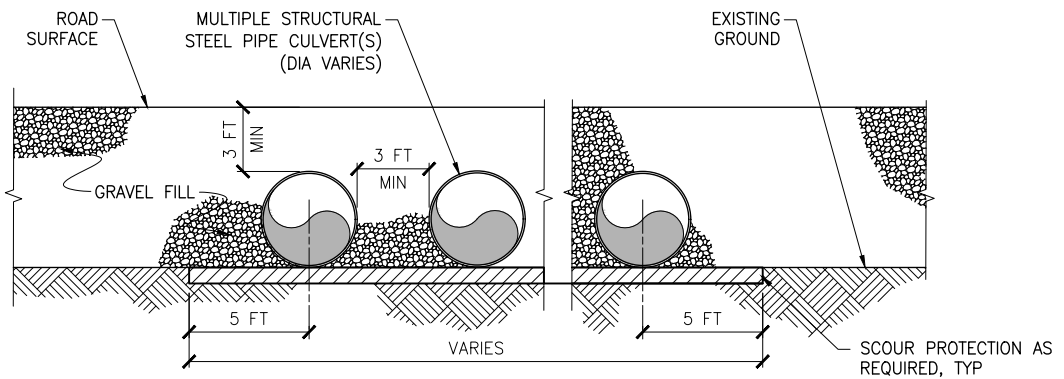
NOTE:
 AS A GENERAL GUIDELINE, CROSS-DRAINAGE CULVERTS WILL BE SITED
 AN AVERAGE OF APPROXIMATELY EVERY 500 FEET ALONG THE
 ALIGNMENT DURING INITIAL DESIGN EFFORTS, ALTHOUGH EXACT
 PLACEMENT OF CULVERTS WILL DEPEND ON ACTUAL IN-FIELD LOCAL
 DRAINAGE PATTERNS.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **37** of **81** 2-20-26

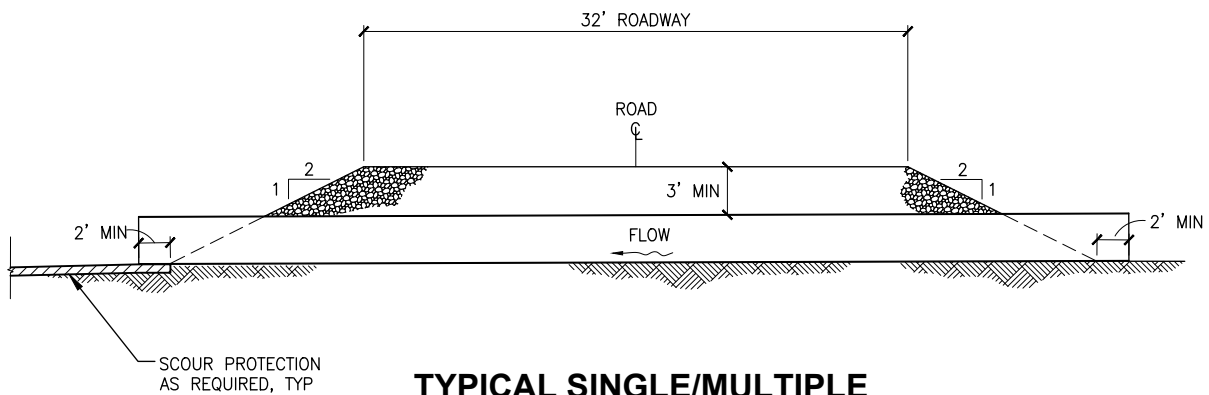
CROSS DRAINAGE CULVERT CROSS SECTIONS



TYPICAL SINGLE CULVERT ELEVATION



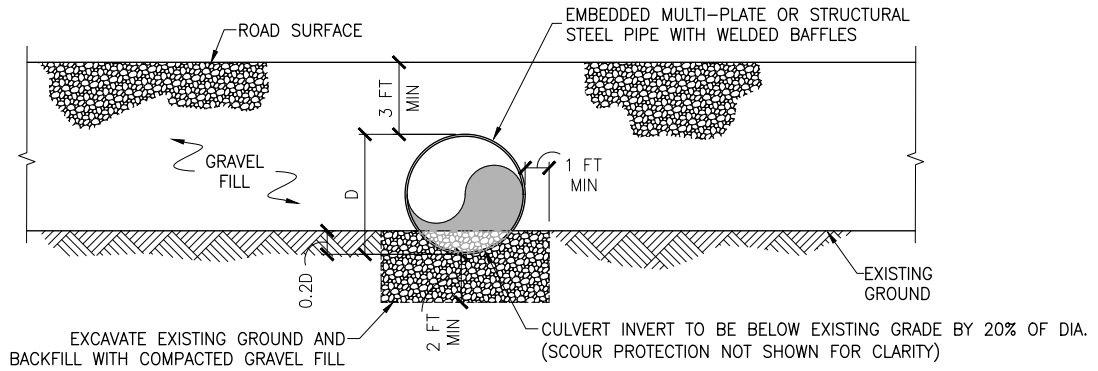
TYPICAL CULVERT BATTERY ELEVATION



TYPICAL SINGLE/MULTIPLE CULVERT SECTION

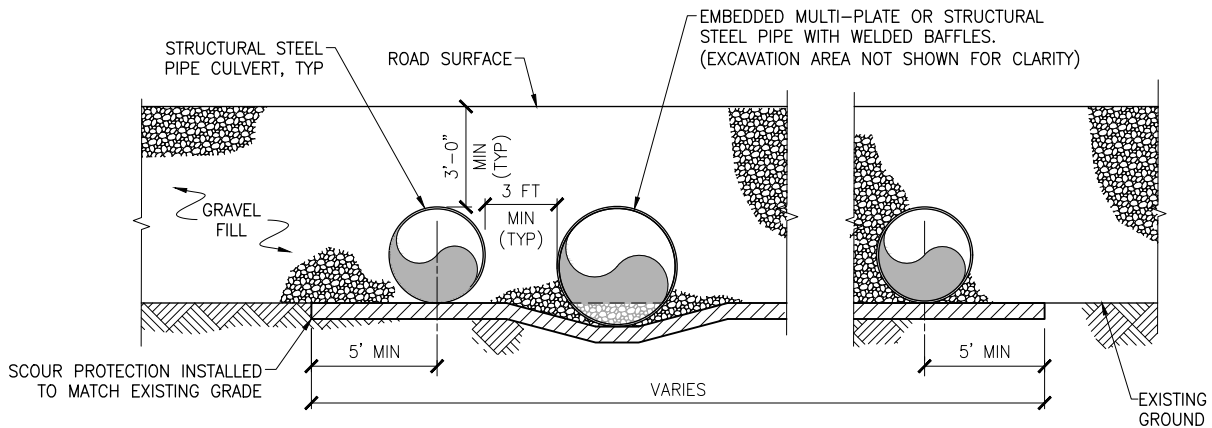
TYPICAL SINGLE AND MULTIPLE CULVERT BATTERY SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **38** of **81** 2-20-26



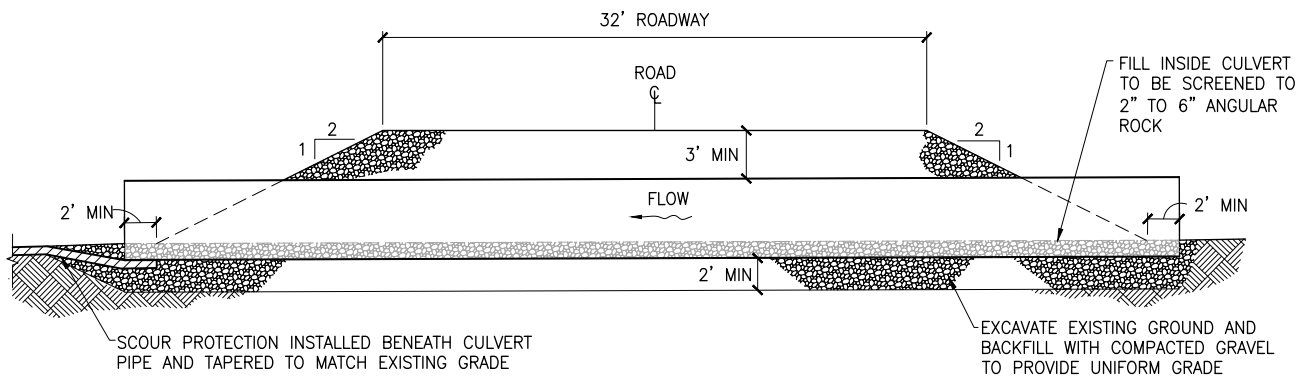
TYPICAL FISH PASSAGE CULVERT DETAIL

NTS



TYPICAL FISH PASSAGE CULVERT BATTERY ELEVATION

NTS

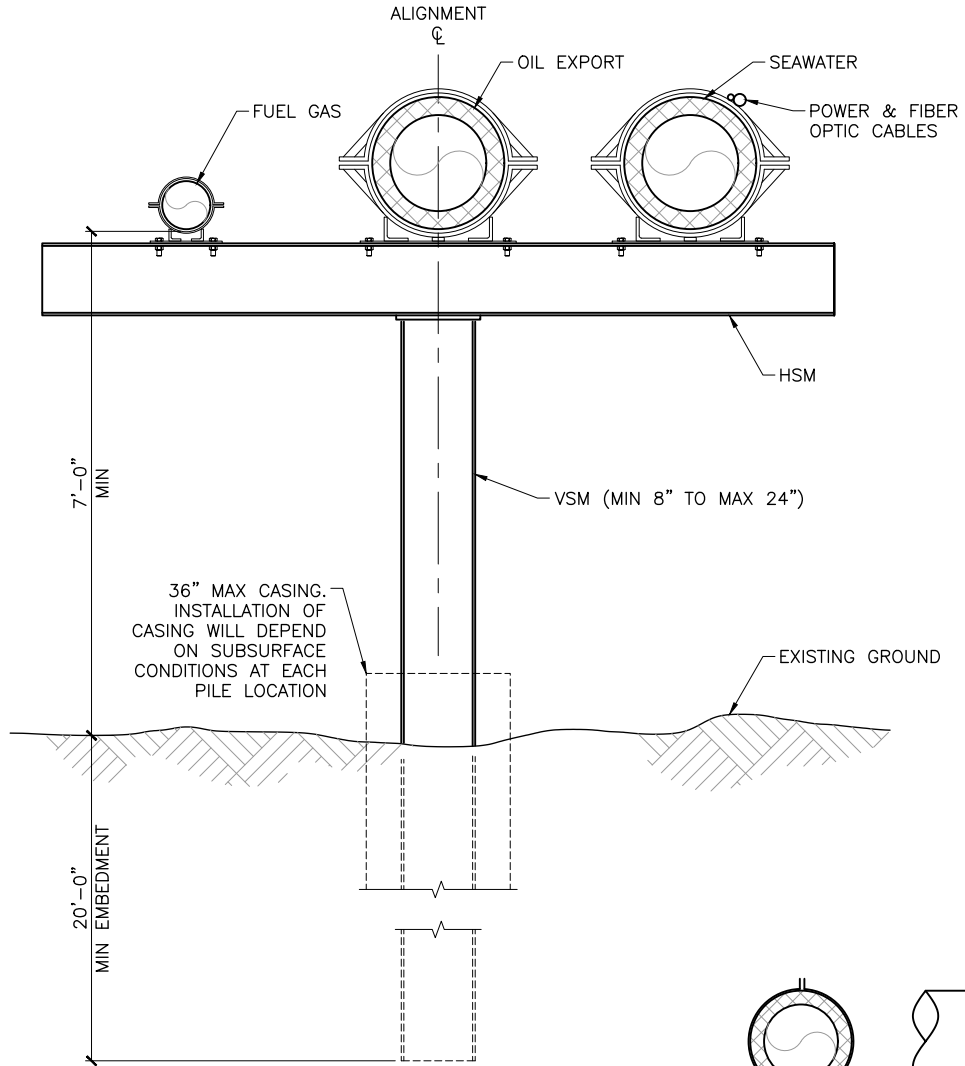


TYPICAL FISH PASSAGE CULVERT SECTION

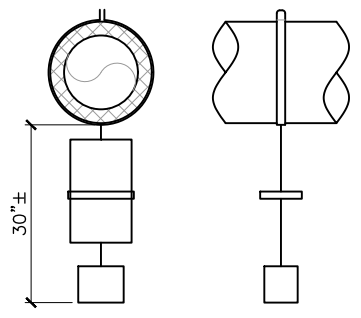
NTS

TYPICAL FISH PASSAGE CULVERT CROSS SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **39** of **81** 2-20-26



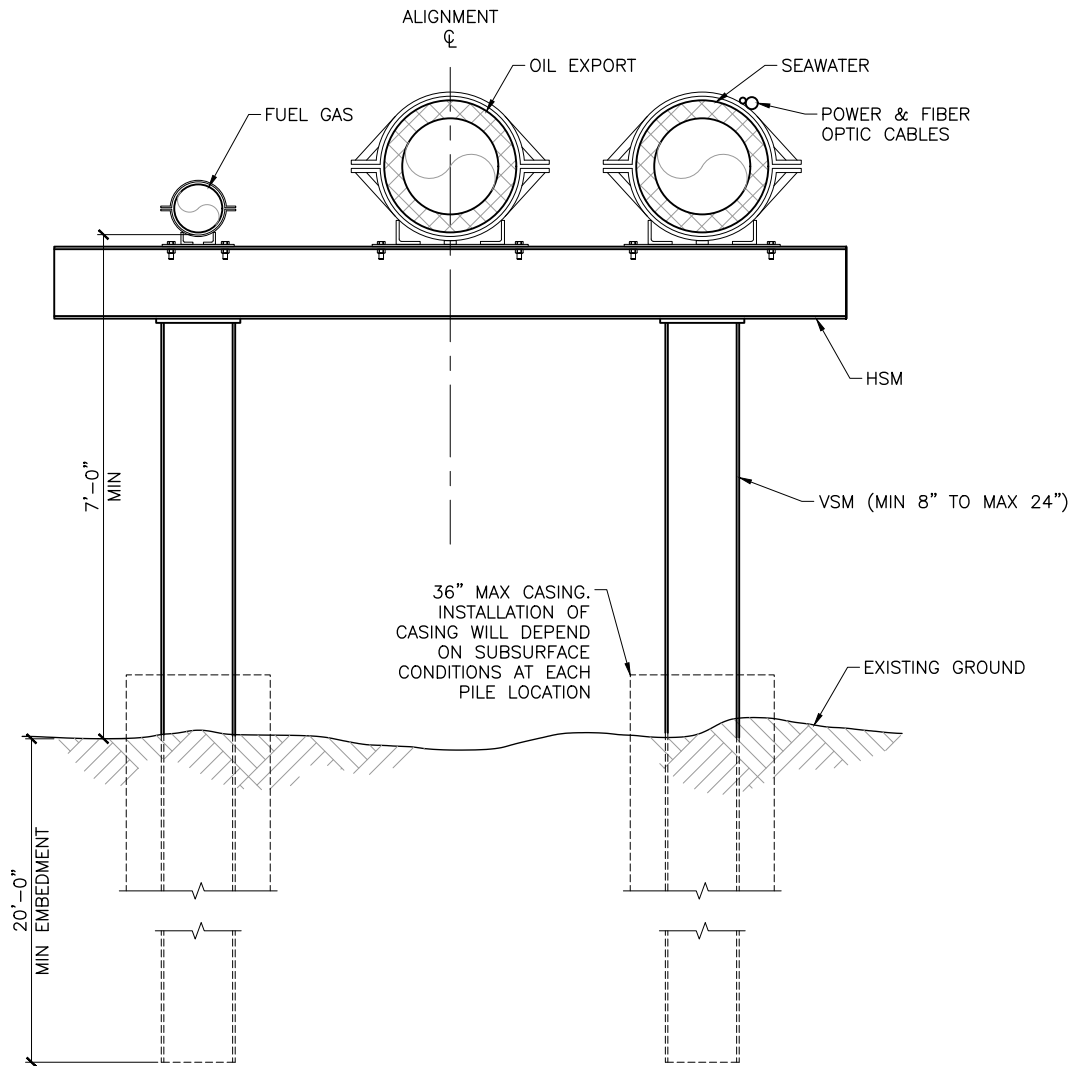
*NOTE:
 FRESHWATER PIPELINE TO BE INSTALLED
 BETWEEN THE NPF AND NOP PAD ONLY.
 FOC/POWER MAY BE STRAPPED TO PIPELINE.



PIPELINE VIBRATION DAMPENER
TYPICAL DETAIL

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **40** of **81** 2-20-26

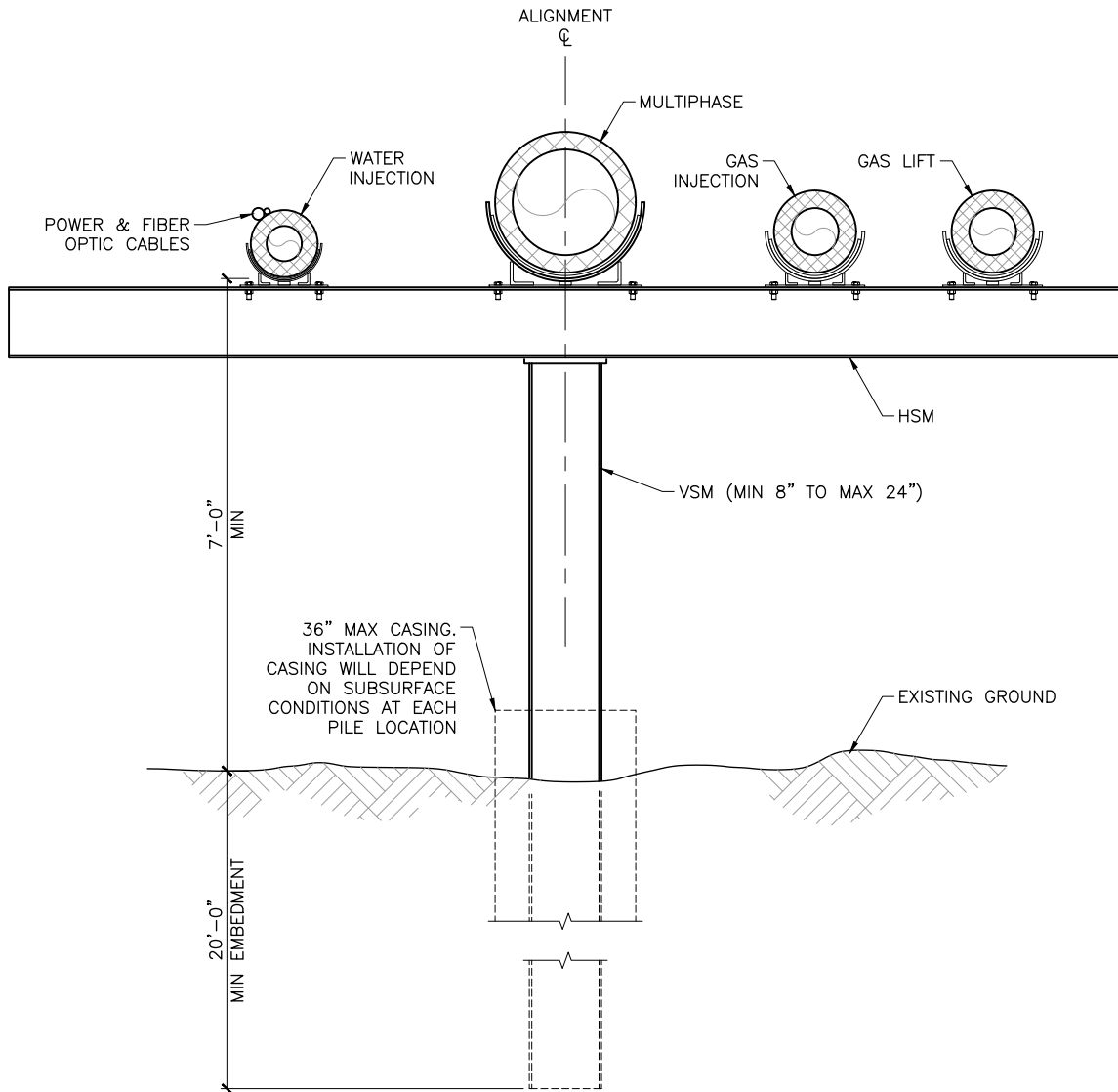
PIKKA PIPELINE GUIDED PIPE SUPPORT



*NOTE:
 FRESHWATER PIPELINE TO BE INSTALLED
 BETWEEN THE NPF AND NOP PAD ONLY.

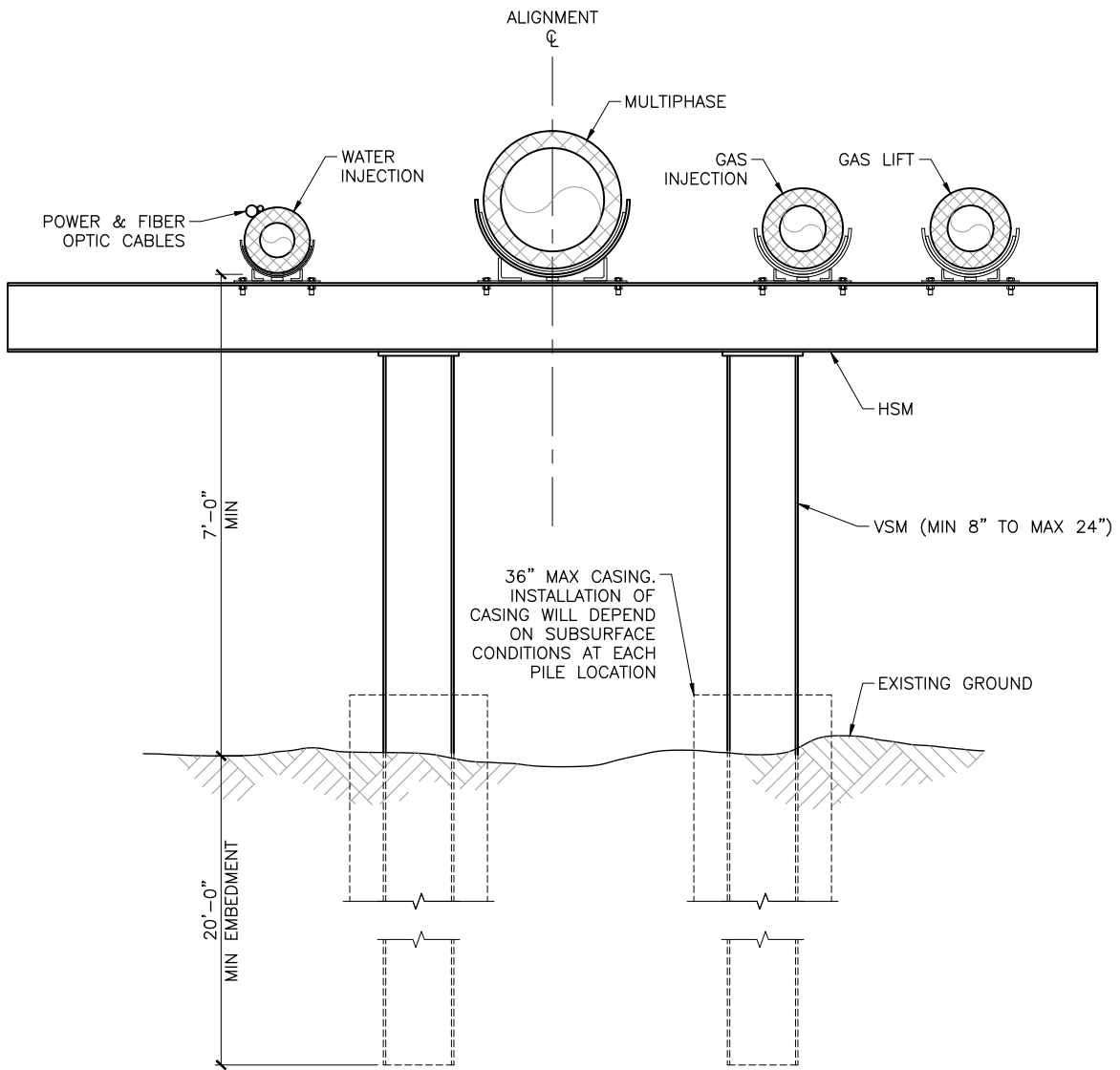
PIKKA PIPELINE ANCHOR PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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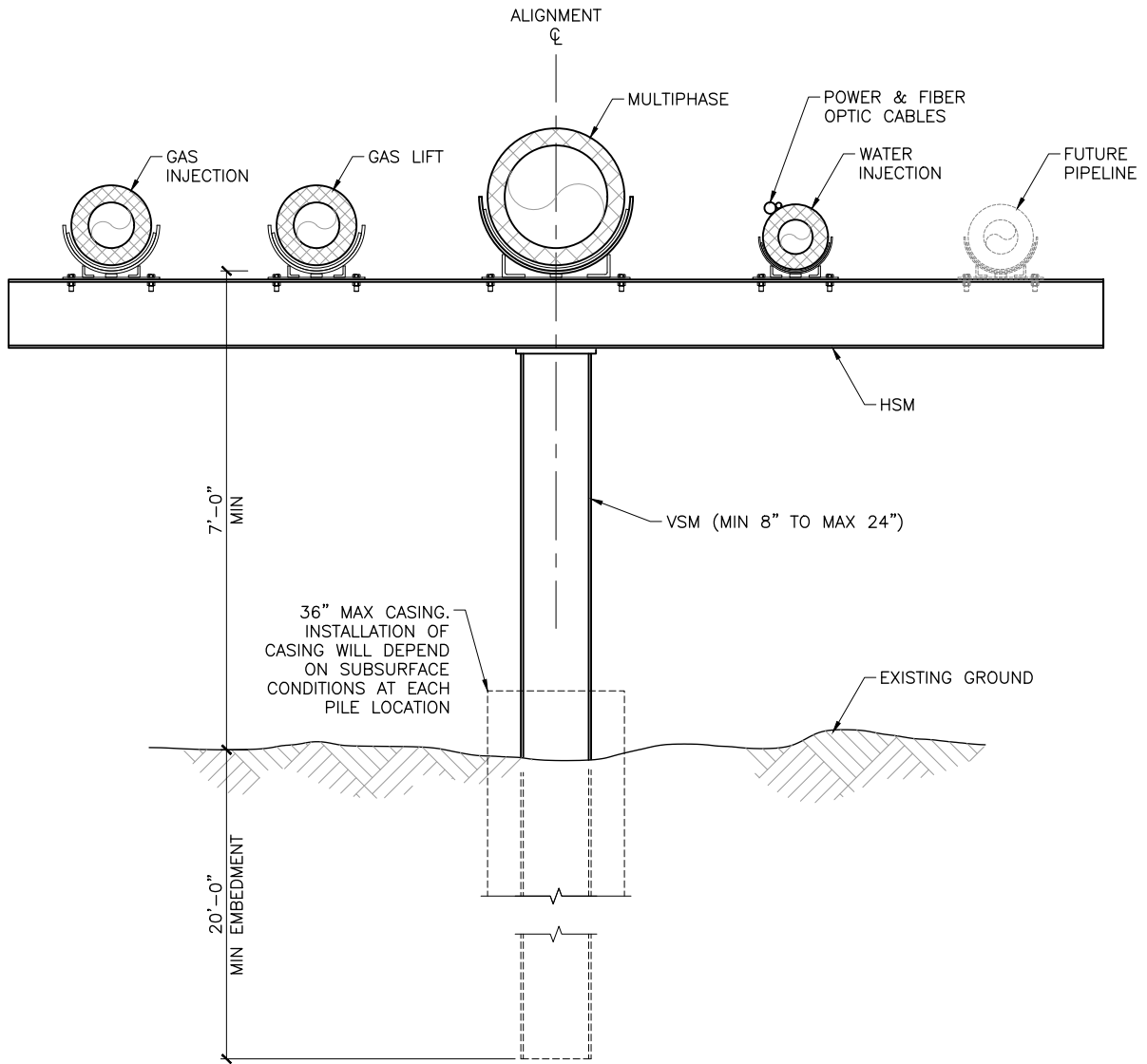
NDA PIPELINE GUIDED PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **42** of **81** 2-20-26



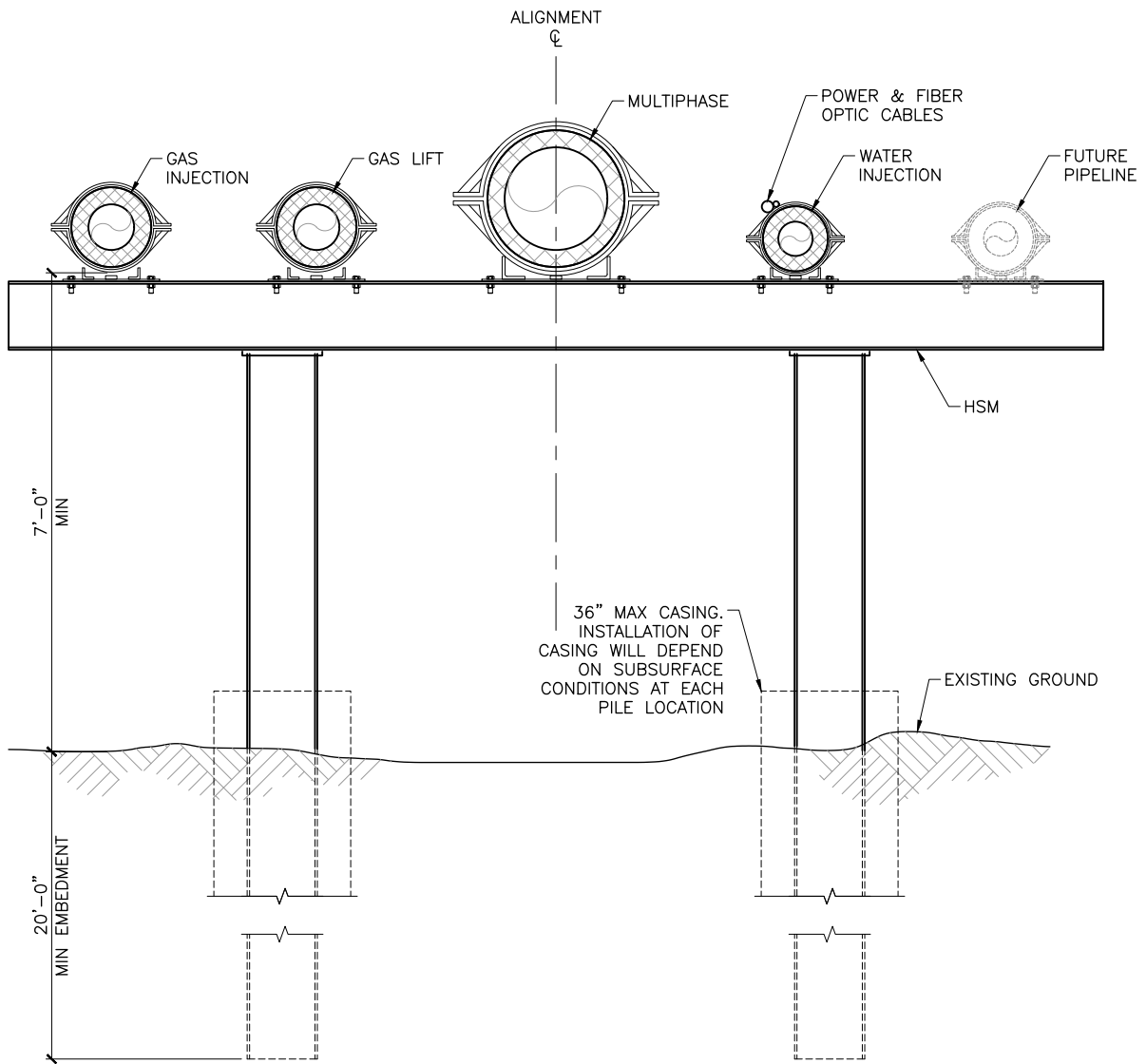
NDA PIPELINE ANCHOR PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **43** of **81** 2-20-26



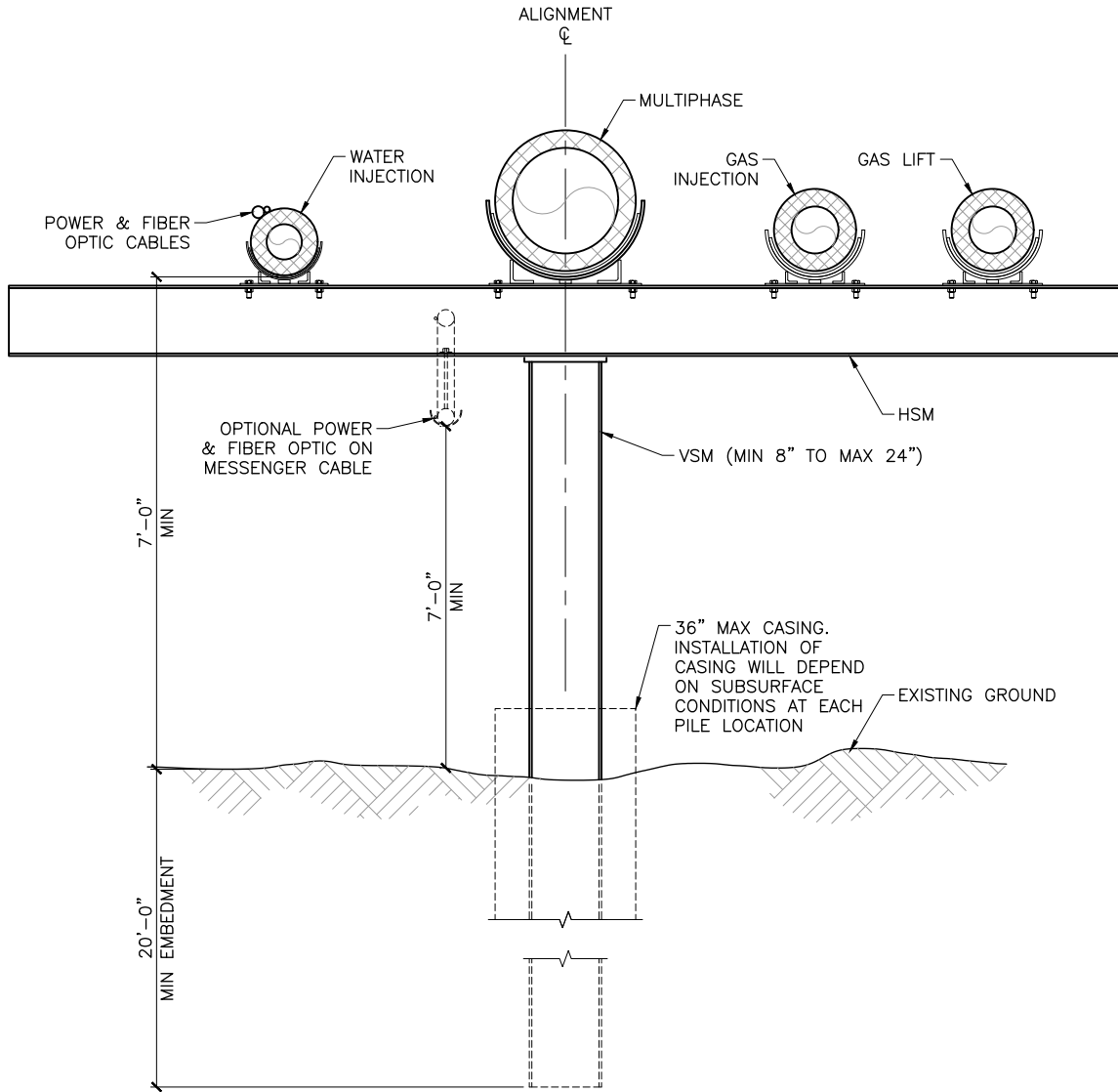
NDB PIPELINE GUIDED PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **44** of **81** 2-20-26



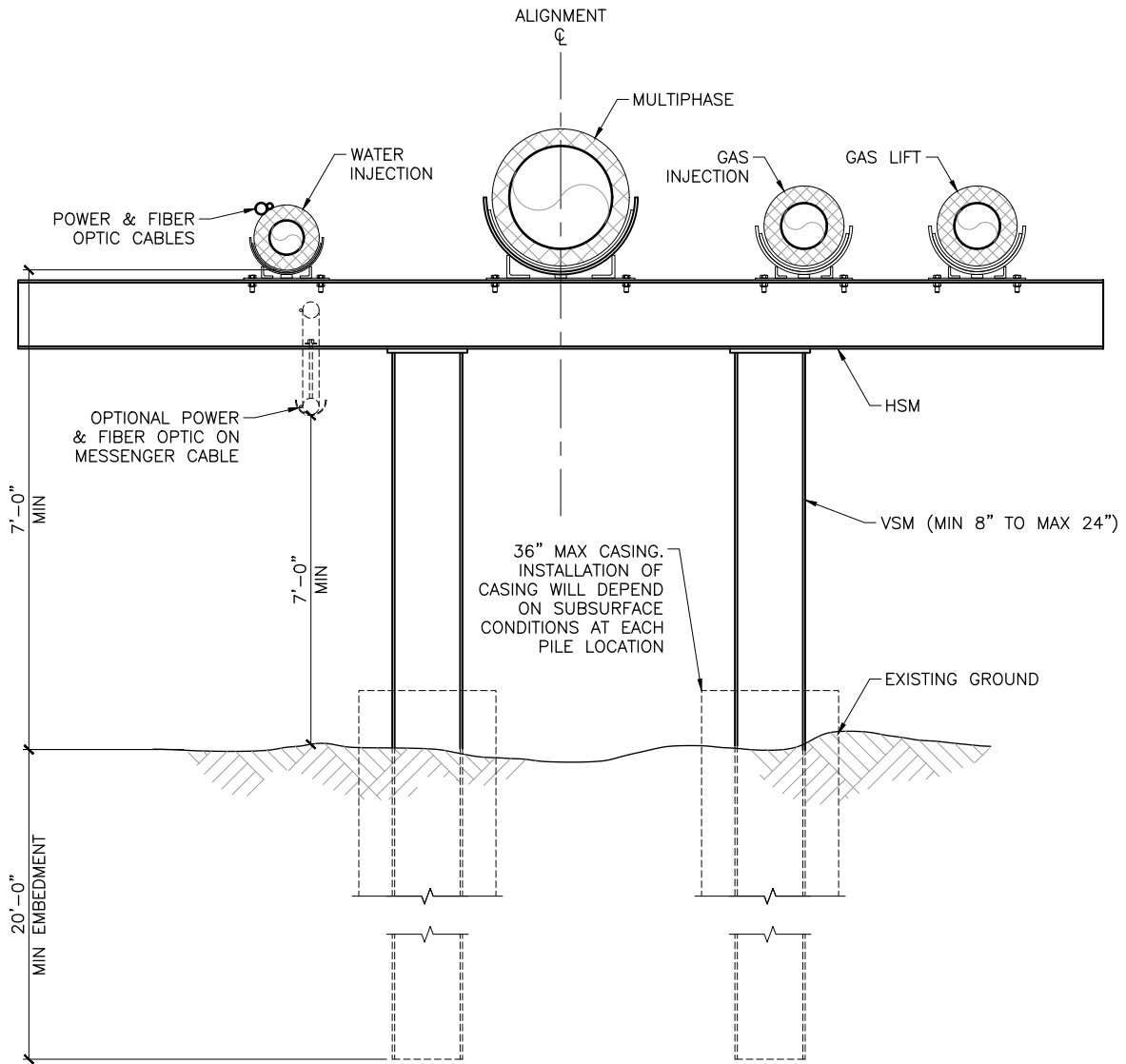
NDB PIPELINE ANCHOR PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **45** of **81** 2-20-26



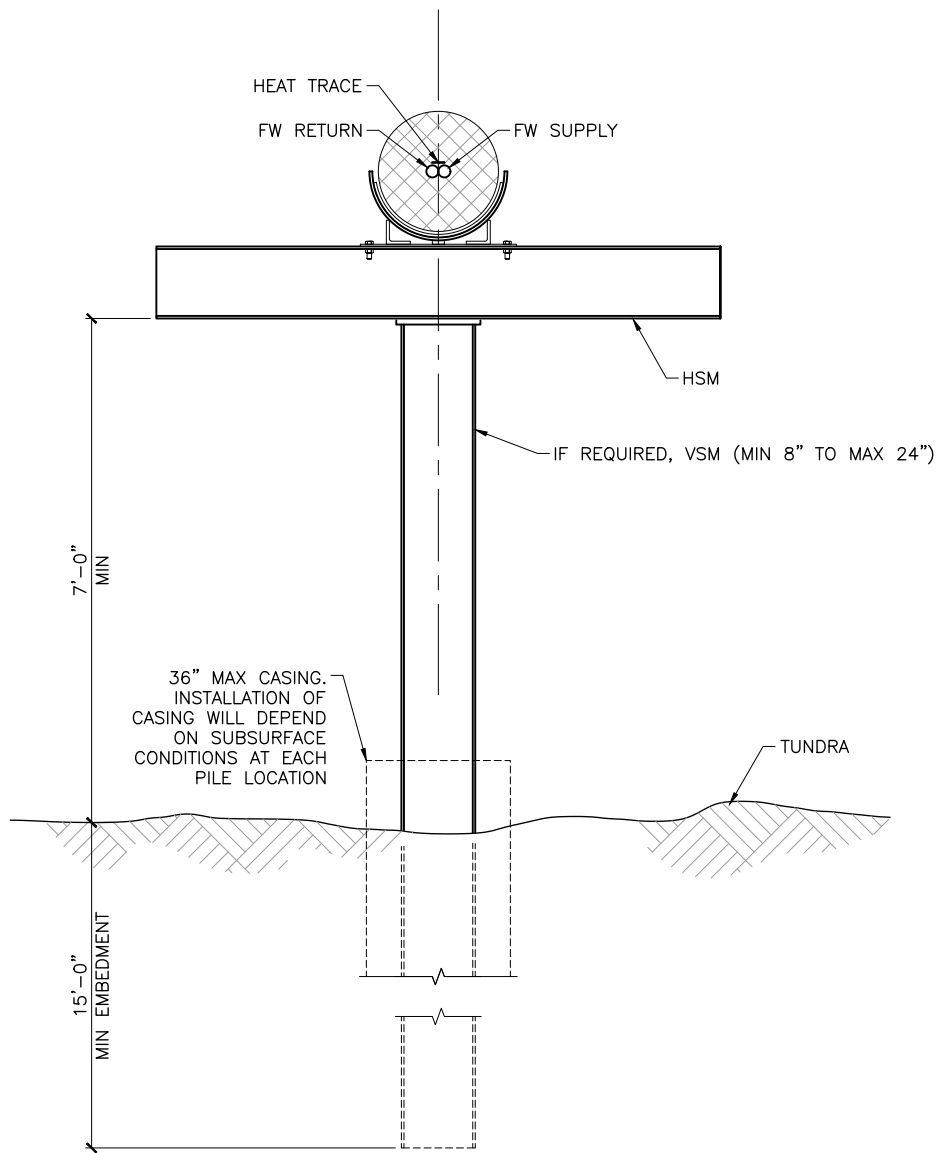
NDC PIPELINE GUIDED PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **46** of **81** 2-20-26



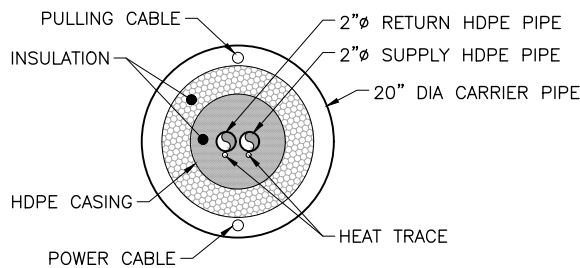
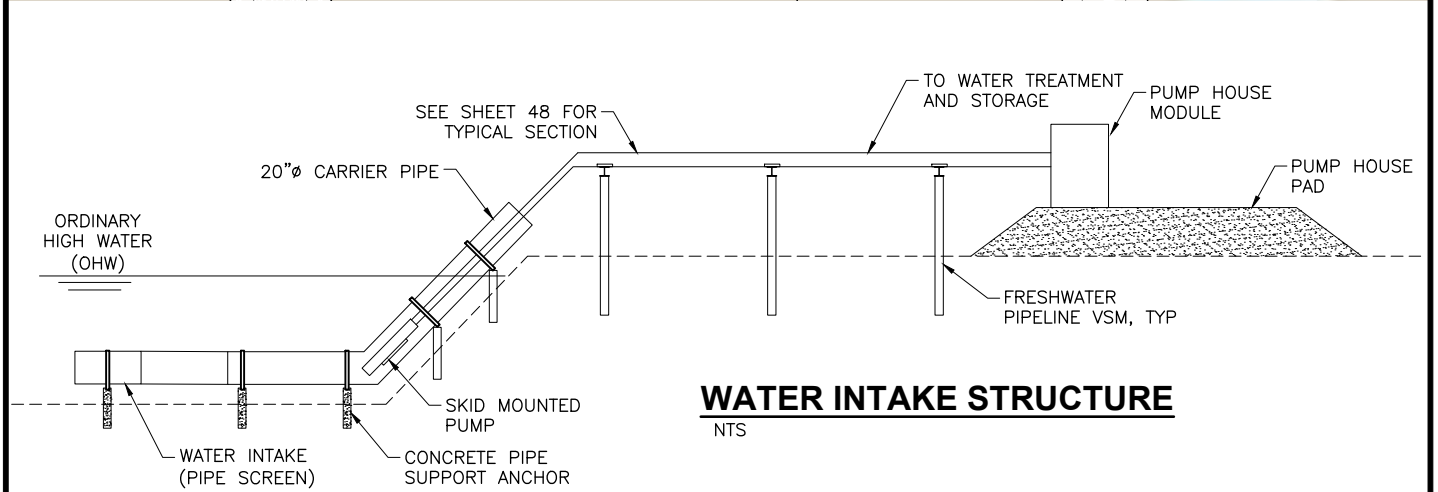
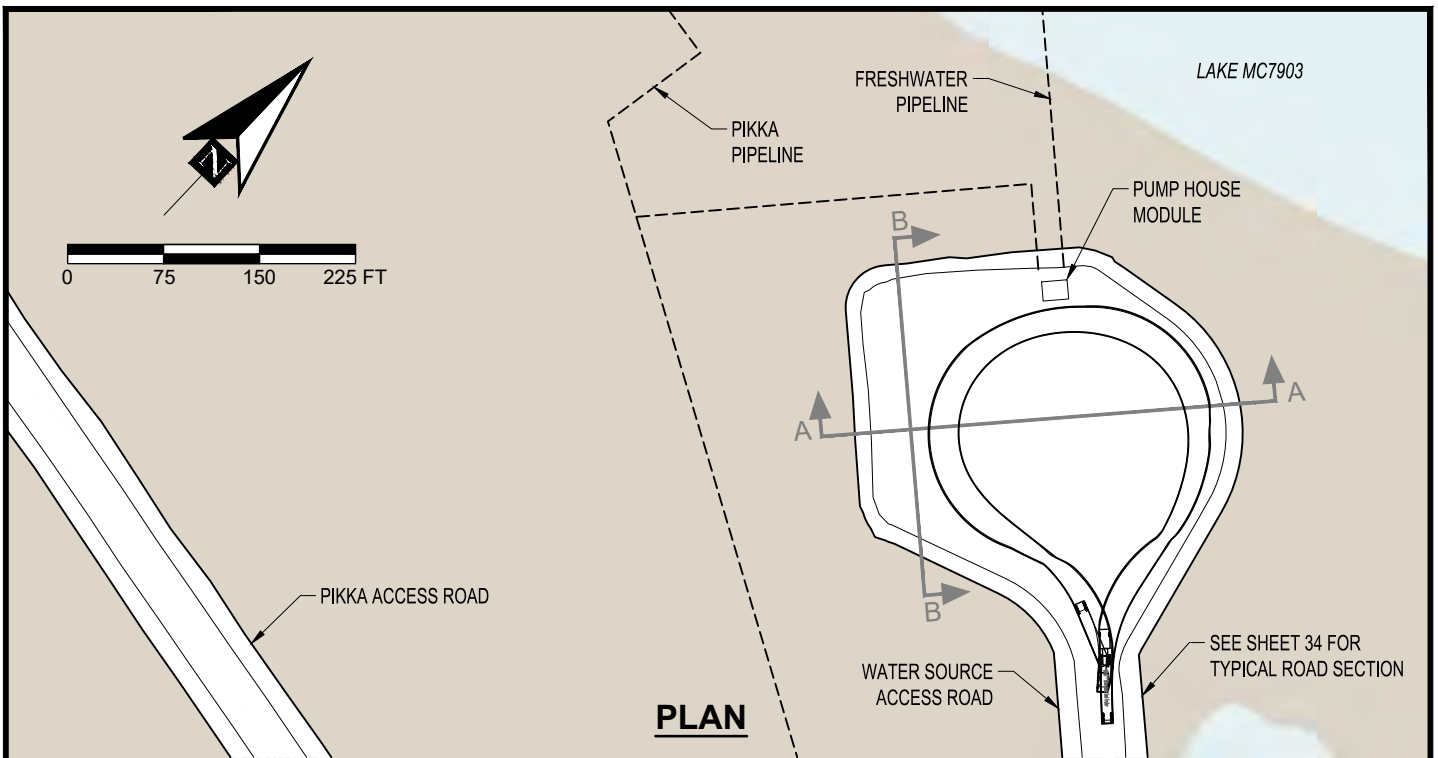
NDC PIPELINE ANCHOR PIPE SUPPORT

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **47** of **81** 2-20-26



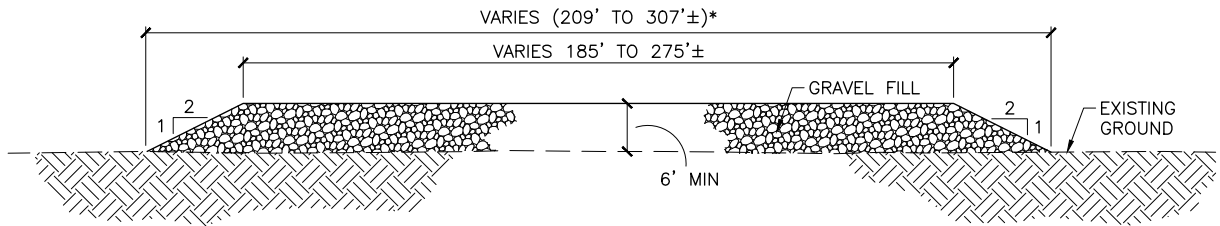
MC7903 FRESHWATER (FW) PIPELINE

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **48** of **81** 2-20-26

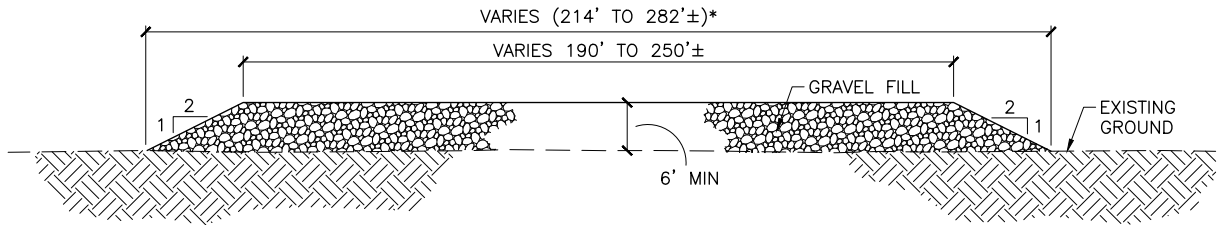


MC7903 WATER INTAKE AND PUMP HOUSE PAD

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **49** of **81** 2-20-26



SECTION A-A
NTS

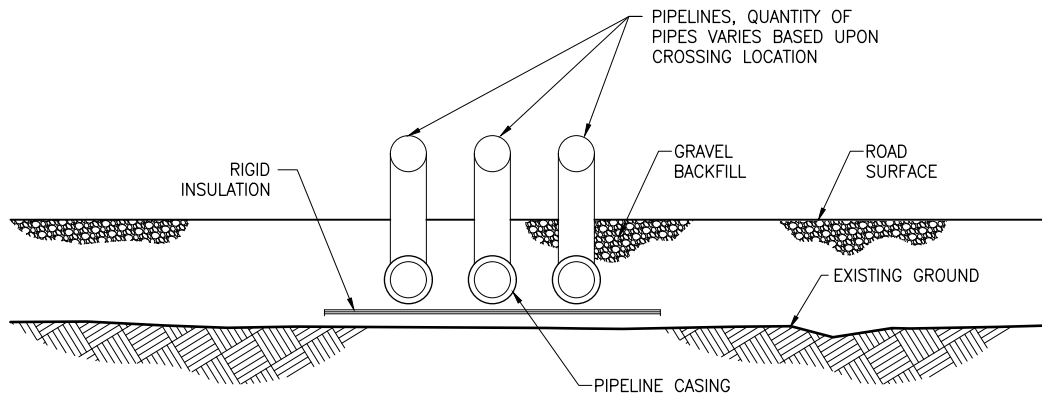


SECTION B-B
NTS

***NOTE:**
MAX TOE TO TOE DIMENSIONS ARE
ESTIMATED. ACTUAL DIMENSIONS
WILL VARY BASED UPON SITE
CONDITIONS.

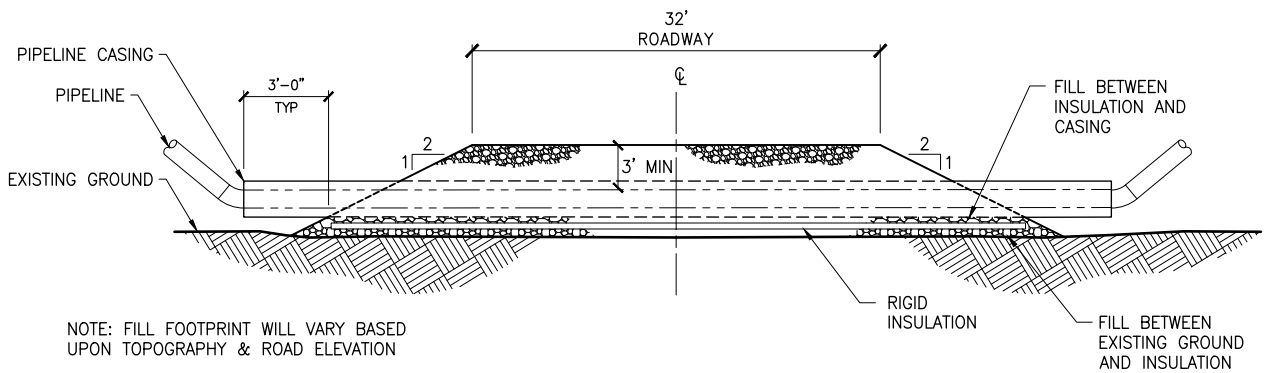
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **50** of **81** 2-20-26

MC7903 WATER INTAKE AND PUMP HOUSE PAD
SECTIONS



ROAD PIPELINE CROSSING PROFILE

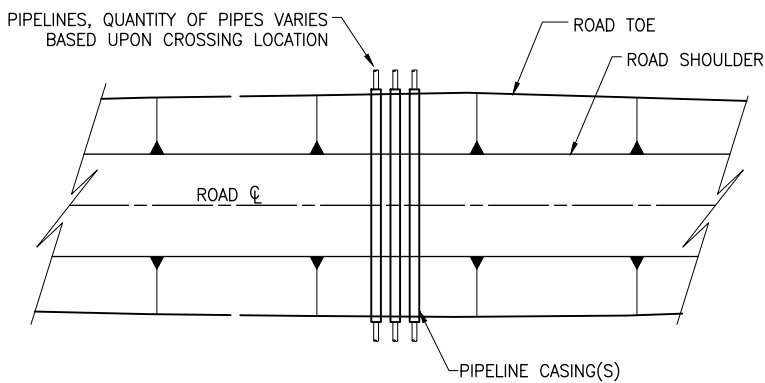
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NOTE: FILL FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & ROAD ELEVATION

ROAD PIPELINE CROSSING SECTION

NTS

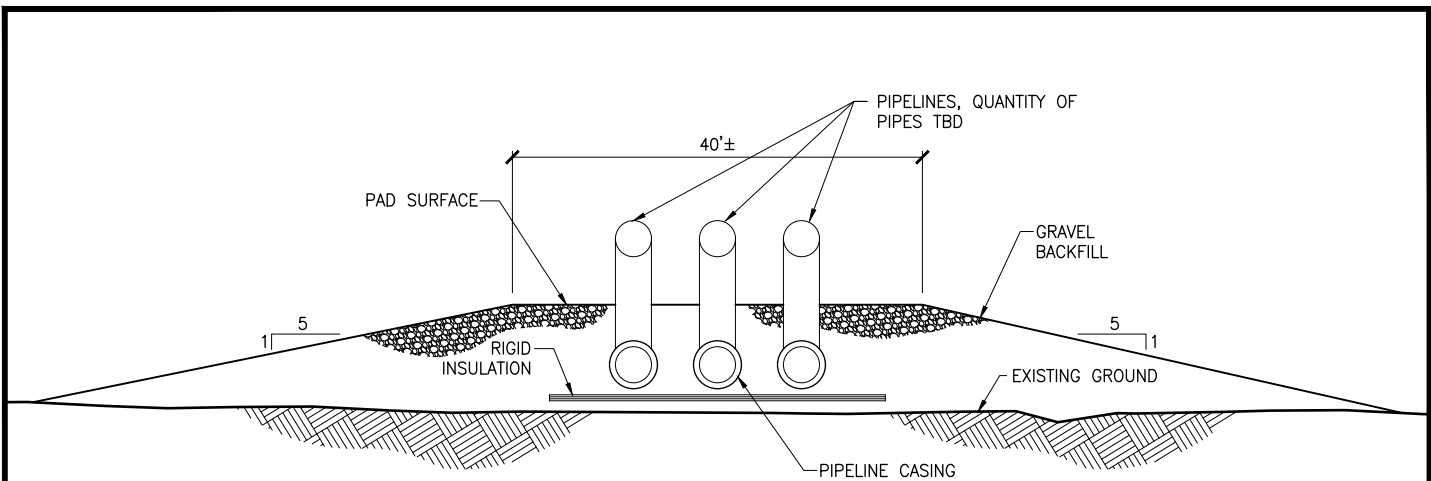


ROAD PIPELINE CROSSING PLAN

NTS

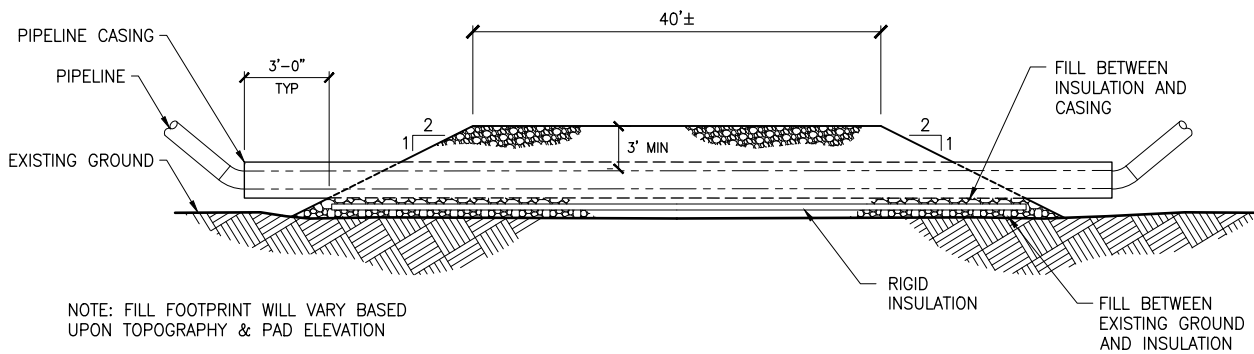
TYPICAL PIPELINE ROAD CROSSING

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **51A** of **81** 2-20-26



TUNDRA PAD PIPELINE CROSSING
PROFILE

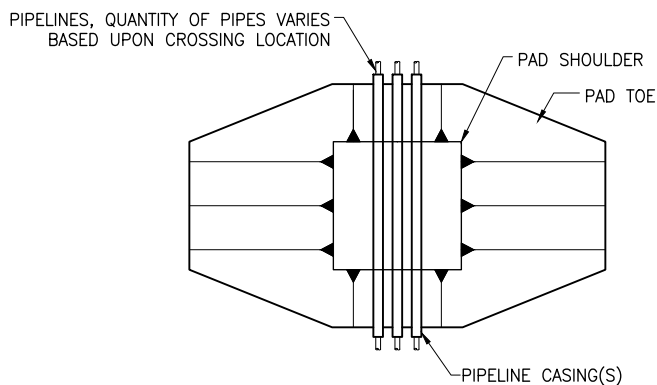
NTS



NOTE: FILL FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & PAD ELEVATION

TUNDRA PAD PIPELINE CROSSING
SECTION

NTS

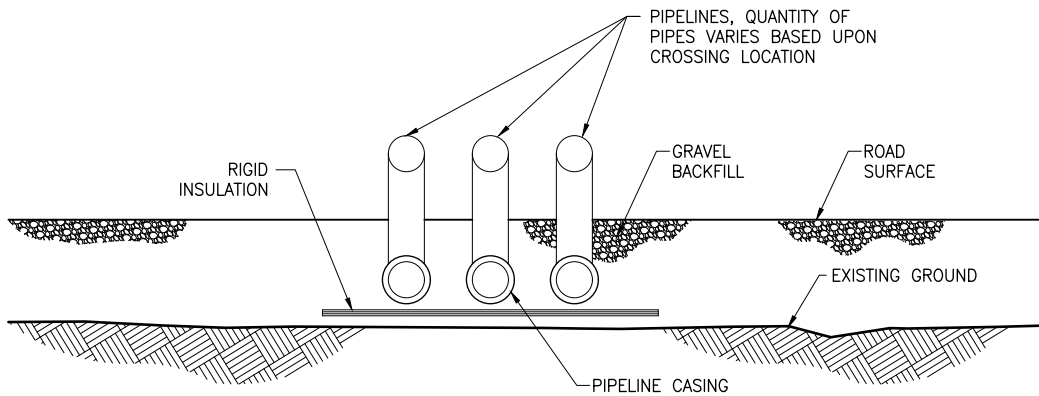


TUNDRA PAD PIPELINE CROSSING
PLAN

NTS

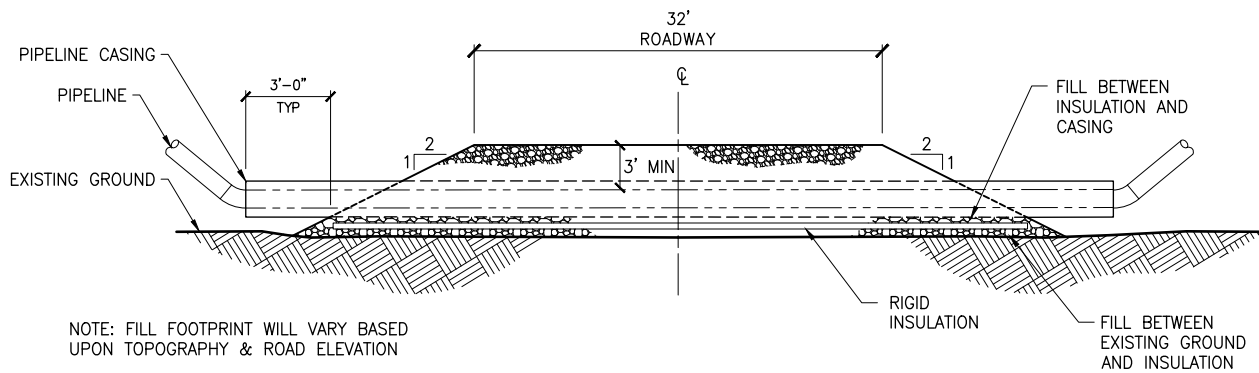
TUNDRA PAD PIPELINE CROSSING

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **51B** of **81** 2-20-26



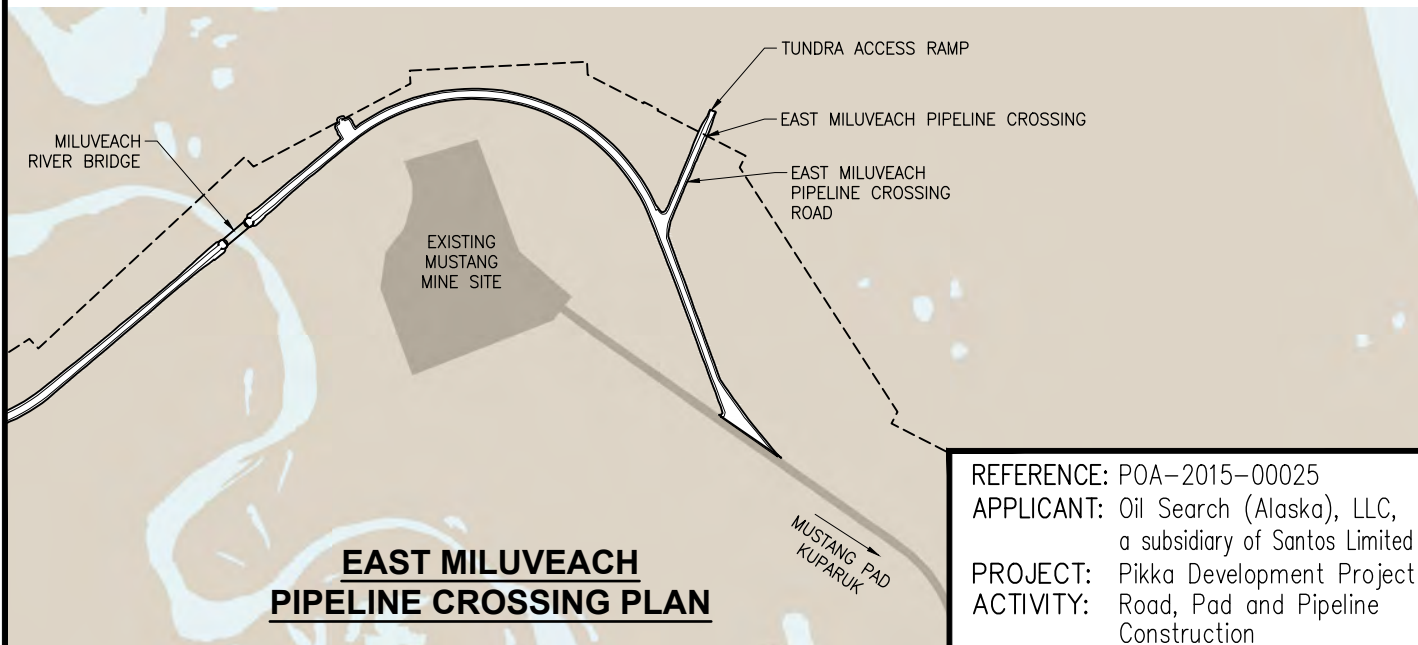
EAST MILUVEACH PIPELINE CROSSING
PROFILE

NTS



EAST MILUVEACH PIPELINE CROSSING
SECTION

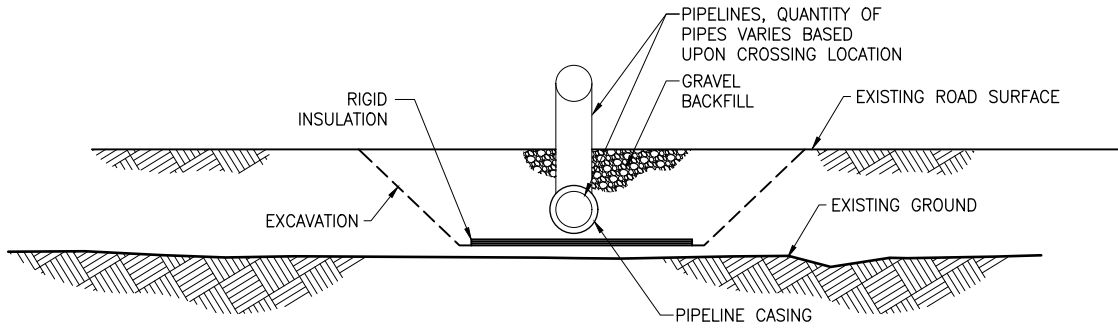
NTS



EAST MILUVEACH
PIPELINE CROSSING PLAN

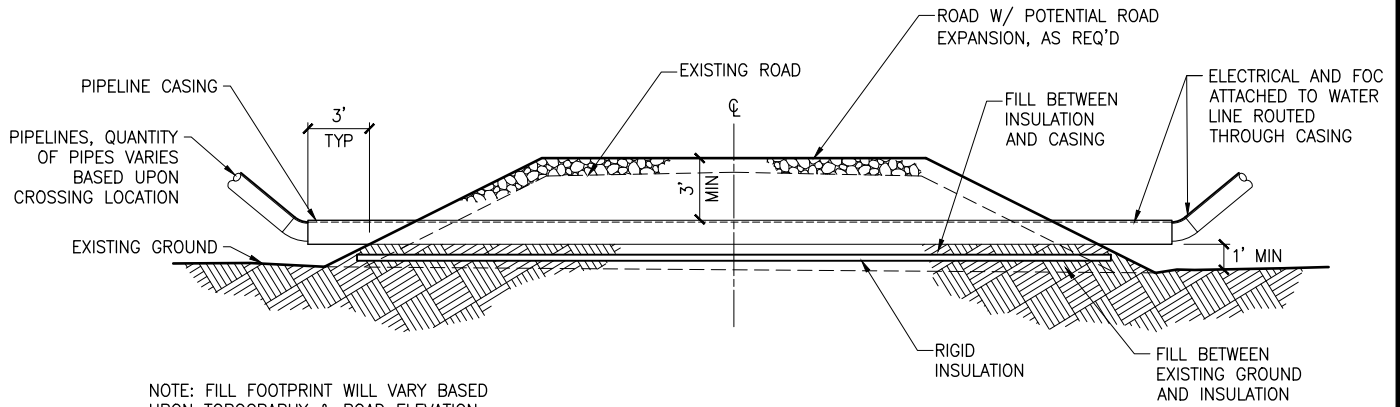
EAST MILUVEACH PIPELINE CROSSING

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **51C** of **81** 2-20-26



EXISTING ROAD PIPELINE CROSSING PROFILE

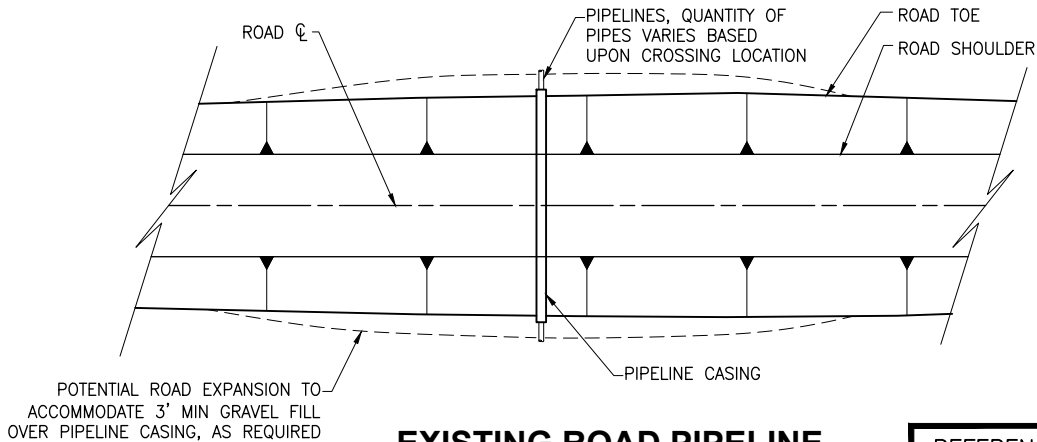
NTS



NOTE: FILL FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & ROAD ELEVATION

EXISTING ROAD PIPELINE CROSSING SECTION

NTS

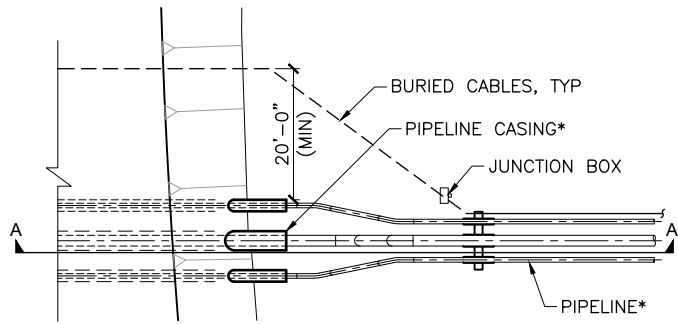


EXISTING ROAD PIPELINE CROSSING PLAN

NTS

TYPICAL EXISTING ROAD PIPELINE CROSSING

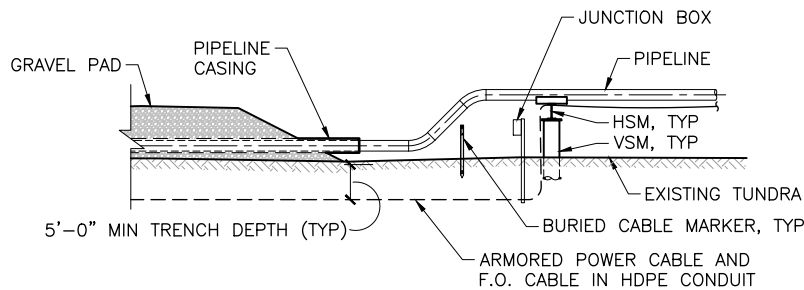
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **52** of **81** 2-20-26



*QUANTITY OF PIPELINES AND CASINGS MAY VARY.

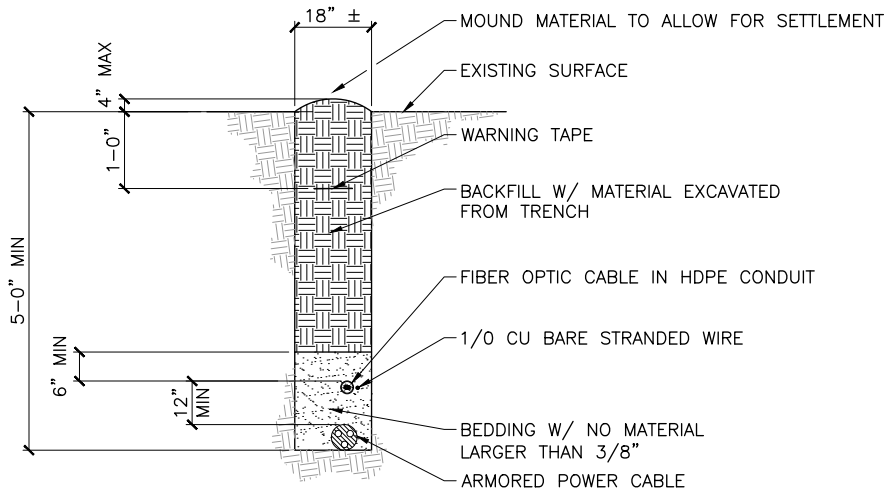
TYPICAL BURIED ELECTRICAL AND FIBER OPTIC CABLE - PLAN

NTS



TYPICAL BURIED ELECTRICAL AND FIBER OPTIC CABLE

NTS



TRENCH DETAIL

NTS

NOTES:

1. PLACE CABLE ROUTE MARKER EVERY 50 FT ALONG TRENCH ALIGNMENT.

REFERENCE: POA-2015-00025

APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

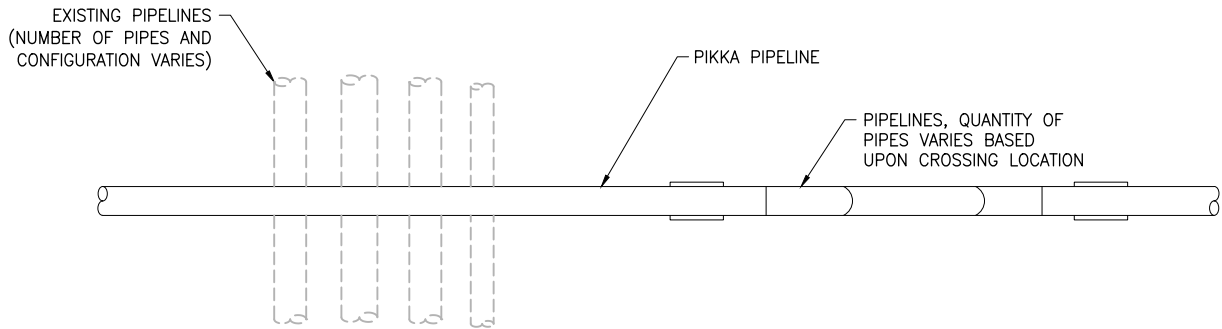
PROJECT: Pikka Development Project

ACTIVITY: Road, Pad and Pipeline
Construction

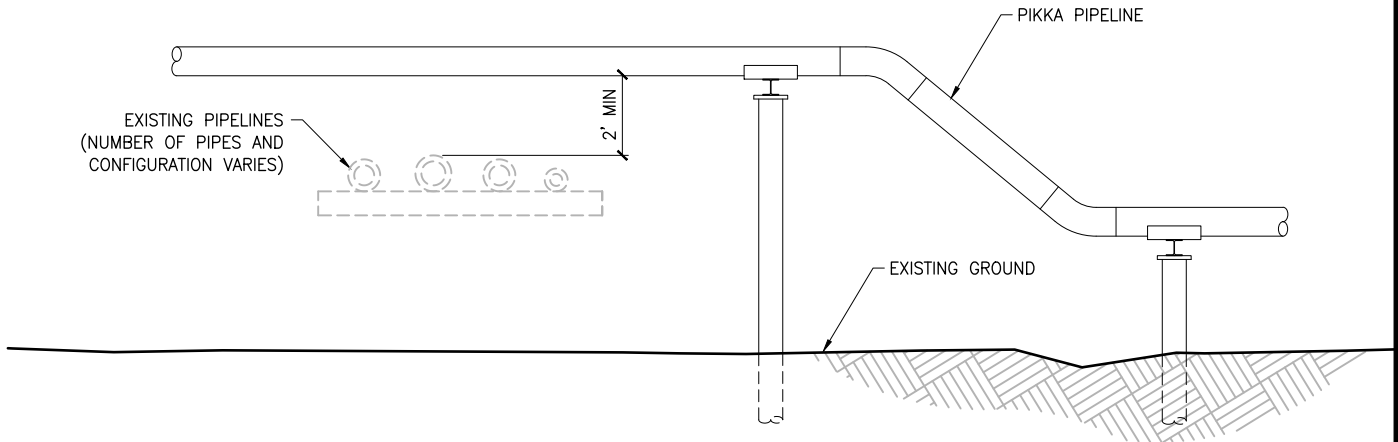
AT: North Slope Borough, AK

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**TYPICAL BURIED ELECTRICAL
AND FIBER OPTIC CABLE**



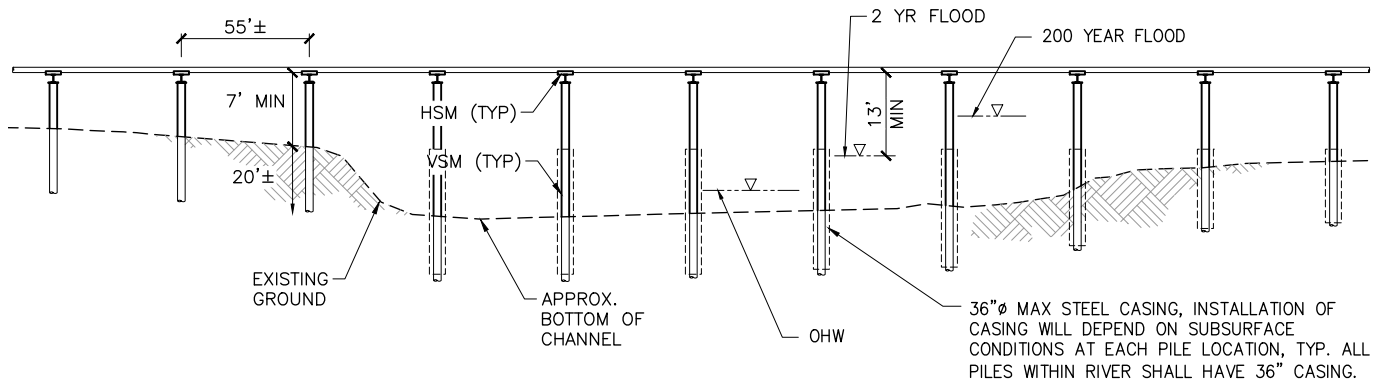
PLAN
NTS



ELEVATION
NTS

**TYPICAL PIKKA PIPELINE CROSSING
OVER EXISTING PIPELINES**

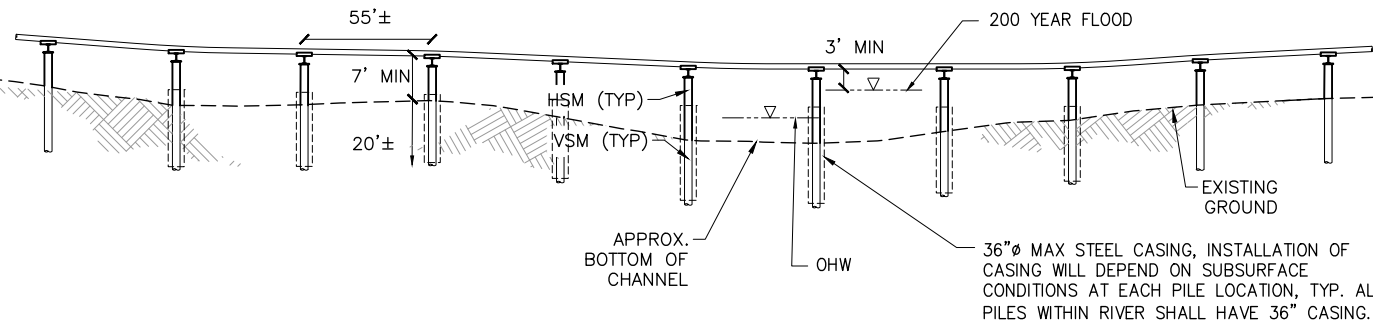
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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NOTES:

1. KACHEMACH BRIDGE LOW CHORD ELEVATION WILL BE A MINIMUM OF THIRTEEN (13) FEET ABOVE THE 2-YEAR FLOOD, THREE (3) FEET ABOVE HIGHEST PREDICTED ELEVATION OF THE 200-YEAR FLOOD, OR THE MAXIMUM OBSERVED STATE ELEVATION PLUS THREE (3) FEET, WHICHEVER IS GREATER.
2. PIPELINE CROSSING PROFILES ARE BASED UPON TOPOGRAPHIC SURVEY DATA.
3. PILE EMBEDMENT DEPTHS, DIAMETERS, AND SPACING MAY VARY DEPENDING UPON SITE CONDITIONS AND FINAL DESIGN CONSIDERATIONS.

KACHEMACH RIVER PIPELINE CROSSING



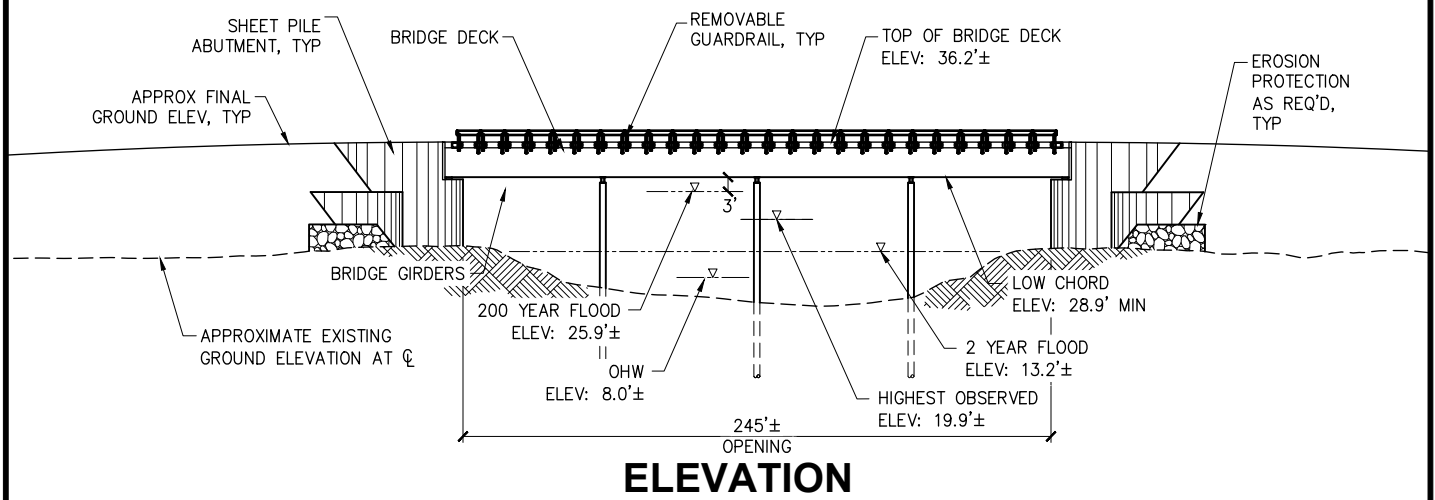
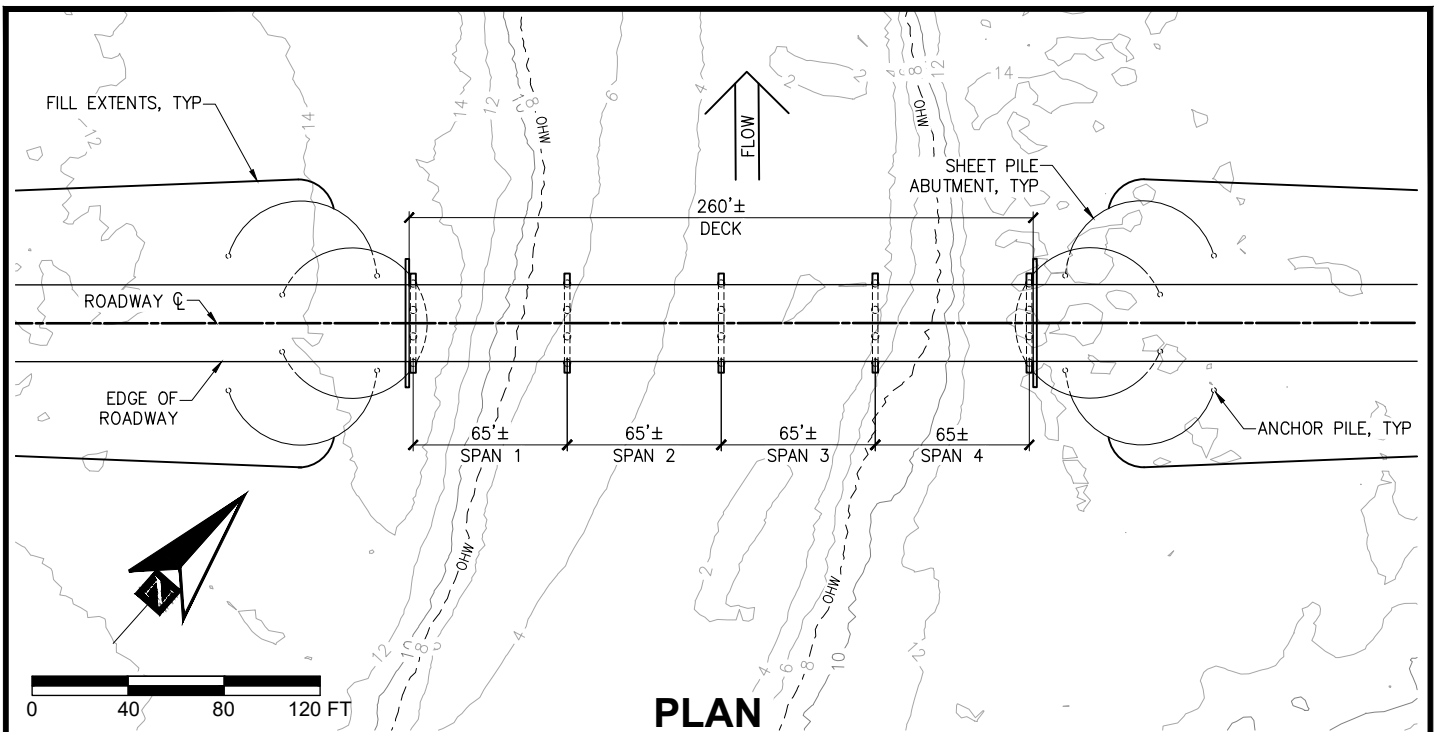
NOTES:

1. MILUVEACH BRIDGE BOTTOM OF PIPE ELEVATION WILL BE A MINIMUM THREE (3) FEET ABOVE THE HIGHEST OF THE PREDICTED ELEVATION FROM THE 200-YEAR FLOOD OR STORM SURGE, OR THE HIGHEST RECORDED HISTORICAL WATER SURFACE ELEVATION.
2. PIPELINE CROSSING PROFILES ARE BASED UPON TOPOGRAPHIC SURVEY DATA.
3. PILE EMBEDMENT DEPTHS, DIAMETERS, AND SPACING MAY VARY DEPENDING UPON SITE CONDITIONS AND FINAL DESIGN CONSIDERATIONS.

MILUVEACH RIVER PIPELINE CROSSING

PIPELINE RIVER CROSSINGS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **55** of **81** 2-20-26

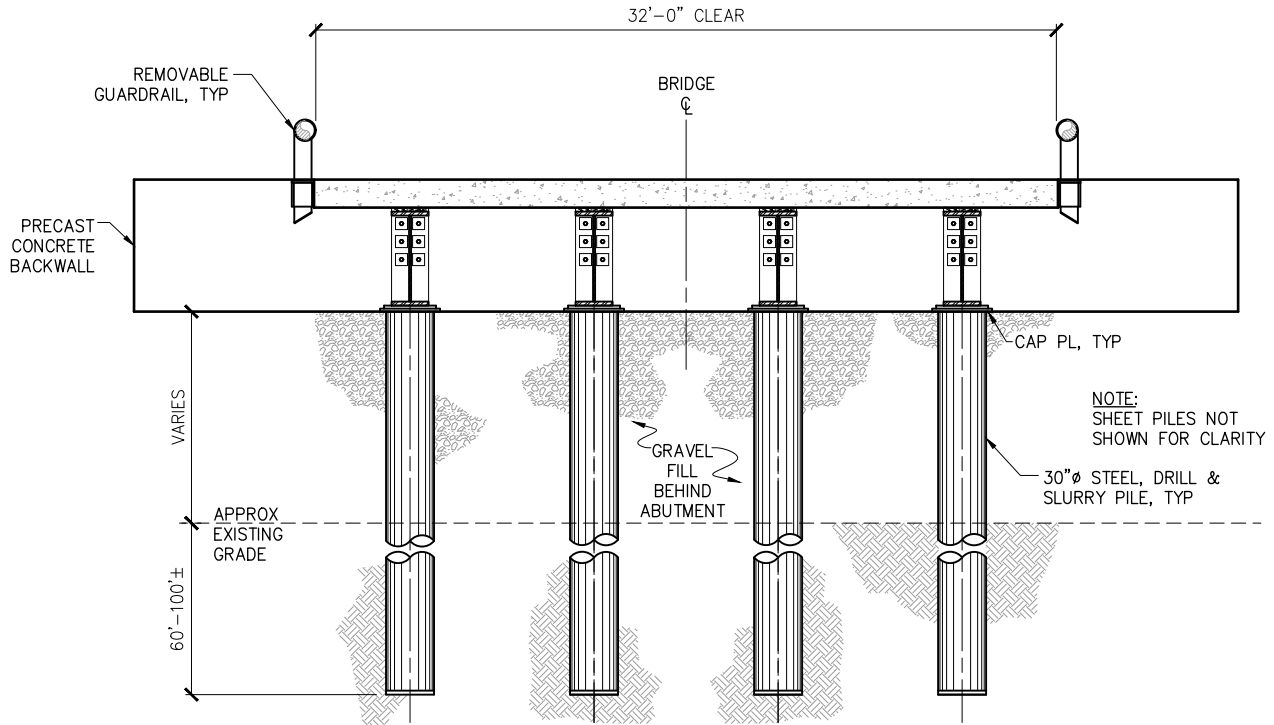


NOTES:

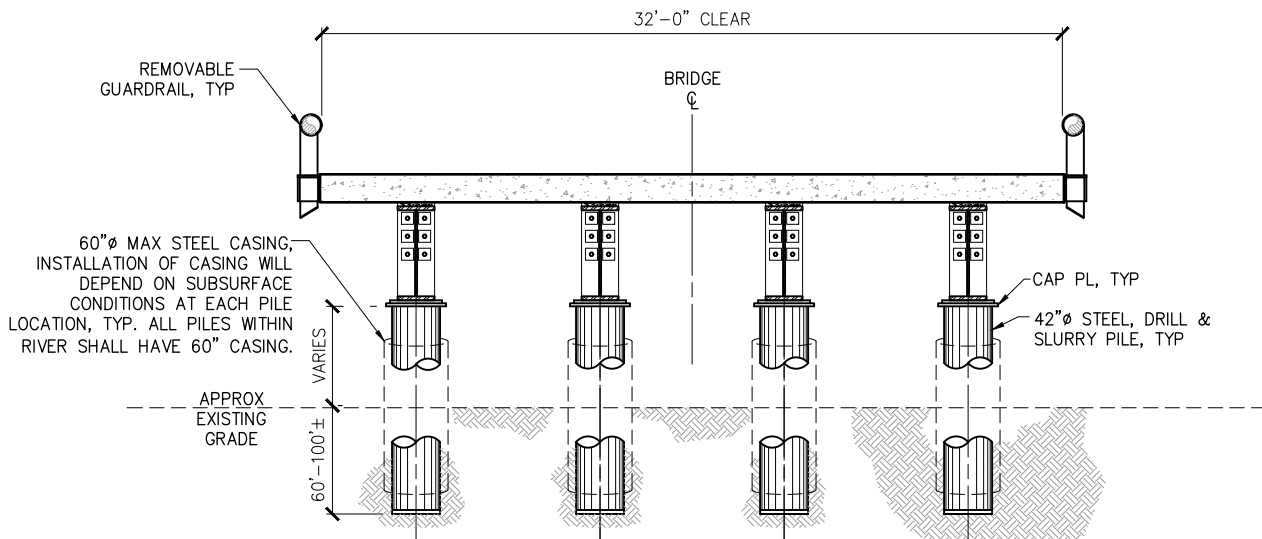
1. VERTICAL SCALE SHOWN 2X HORIZONTAL SCALE.
2. BRIDGE CROSSING PROFILES ARE BASED UPON TOPOGRAPHIC SURVEY DATA. VERTICAL DATUM IS NAVD 88.
3. BRIDGE LOW CHORD ELEVATION WILL BE A MINIMUM OF THIRTEEN (13) FEET ABOVE THE 2-YEAR FLOOD, THREE (3) FEET ABOVE HIGHEST PREDICTED ELEVATION OF THE 200-YEAR FLOOD, OR THE MAXIMUM OBSERVED STAGE ELEVATION PLUS THREE (3) FEET, WHICHEVER IS GREATER.
4. THE 200-YEAR FLOOD ELEVATION LISTED IS BASED ON A KACHEMACH RIVER 2-YEAR FLOOD IN CONJUNCTION WITH A 200-YEAR ICE AFFECTED COLVILLE RIVER FLOOD STAGE. THE 2-YEAR FLOOD ELEVATION SHOWN IS BASED ON A KACHEMACH RIVER 2-YEAR FLOOD EVENT WITH INFLUENCES OF A 2-YEAR OPEN WATER COLVILLE RIVER FLOOD STAGE
5. ORDINARY HIGH WATER (OHW) ELEVATIONS ARE PRELIMINARY. VALUES WERE APPROXIMATED FROM NON-VEGETATED CHANNEL WIDTH AND TOPOGRAPHIC SURVEY DATA.
6. SIDE SLOPES TO BE SEEDDED AS REQUIRED. SEED SHALL CONSIST OF NATIVE PLANT SPECIES WITH BIODEGRADABLE EROSION PROTECTION.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **56** of **81** 2-20-26

KACHEMACH RIVER BRIDGE PLAN AND ELEVATION



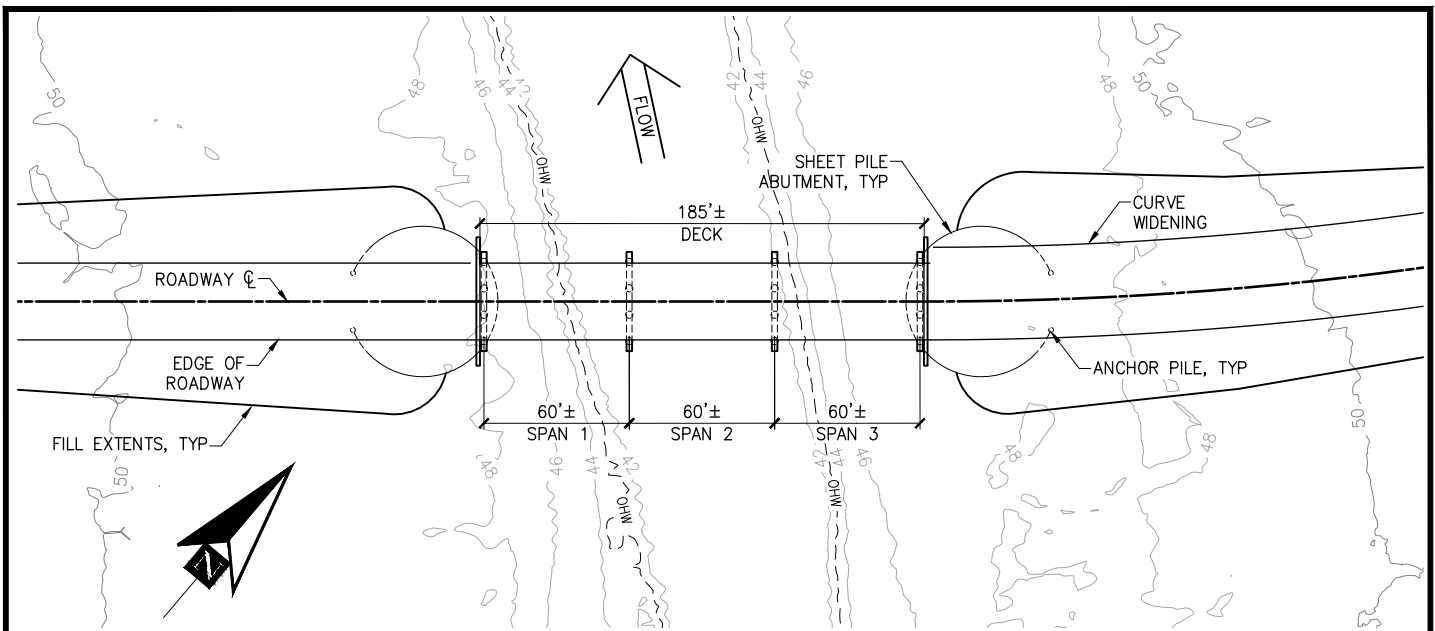
TYPICAL SECTION AT ABUTMENT



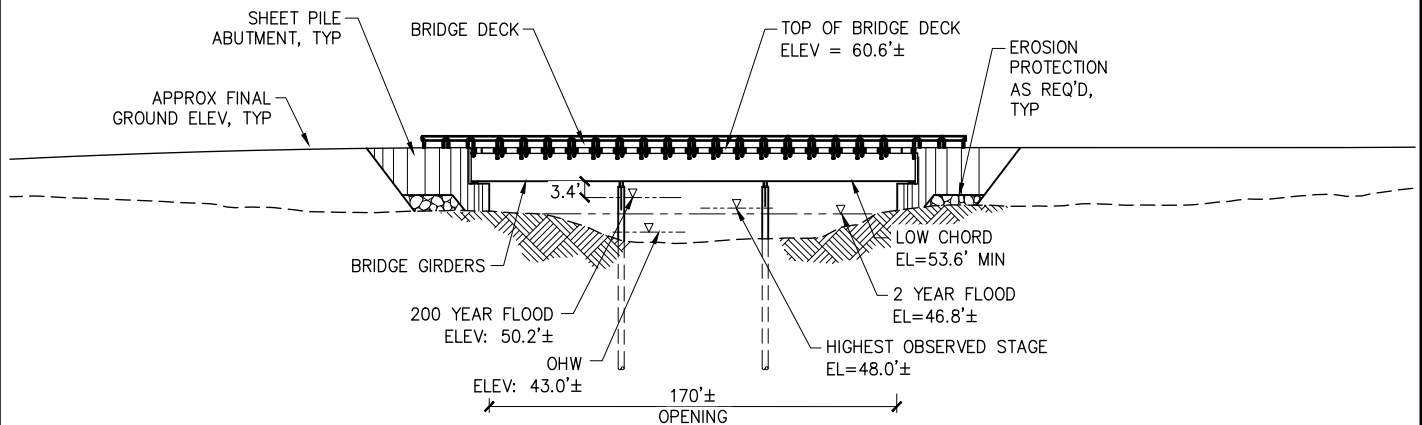
TYPICAL SECTION AT PIER

KACHEMACH RIVER BRIDGE PIER SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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PLAN



ELEVATION

NOTES:

1. VERTICAL SCALE SHOWN 2X HORIZONTAL SCALE.
2. BRIDGE CROSSING PROFILES ARE BASED UPON TOPOGRAPHIC SURVEY DATA. VERTICAL DATUM IS NAVD 88.
3. BRIDGE LOW CHORD ELEVATION WILL BE A MINIMUM OF THREE (3) FEET ABOVE HIGHEST PREDICTED ELEVATION OF THE 200-YEAR FLOOD OR THE MAXIMUM OBSERVED STAGE ELEVATION PLUS THREE (3) FEET, WHICHEVER IS GREATER.
4. THE 200-YEAR FLOOD ELEVATION LISTED IS BASED UPON A 200-YEAR MILUVEACH RIVER ICE AFFECTED FLOOD EVENT WITH NO COLVILLE RIVER FLOOD INFLUENCES. THE 2-YEAR FLOOD ELEVATION LISTED IS BASED UPON A 2-YEAR MILUVEACH RIVER ICE AFFECTED FLOOD EVENT WITH NO COLVILLE RIVER FLOOD INFLUENCES.
5. ORDINARY HIGH WATER (OHW) ELEVATIONS ARE PRELIMINARY. VALUES WERE APPROXIMATED FROM NON-VEGETATED CHANNEL WIDTH AND TOPOGRAPHIC SURVEY DATA.
6. SIDE SLOPES TO BE SEEDED AS REQUIRED. SEED SHALL CONSIST OF NATIVE PLANT SPECIES WITH BIODEGRADABLE EROSION PROTECTION.

REFERENCE: POA-2015-00025

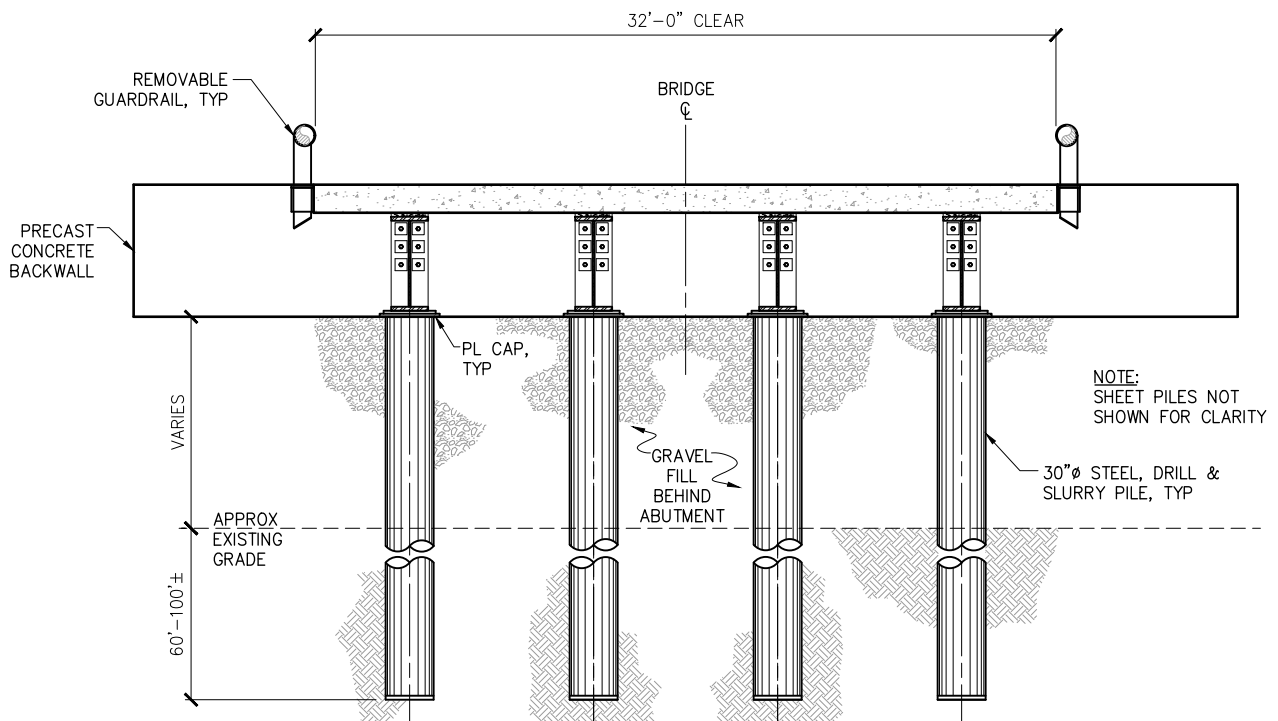
APPLICANT: Oil Search (Alaska), LLC,
a subsidiary of Santos Limited

PROJECT: Pikka Development Project
ACTIVITY: Road, Pad and Pipeline
Construction

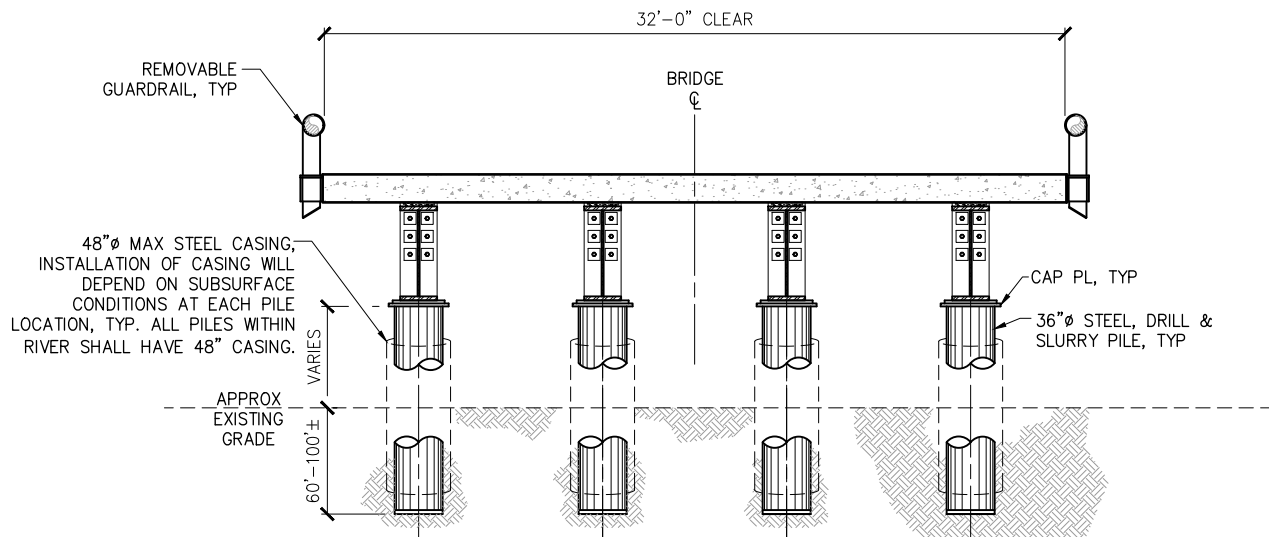
AT: North Slope Borough, AK

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MILUVEACH RIVER BRIDGE PLAN AND ELEVATION



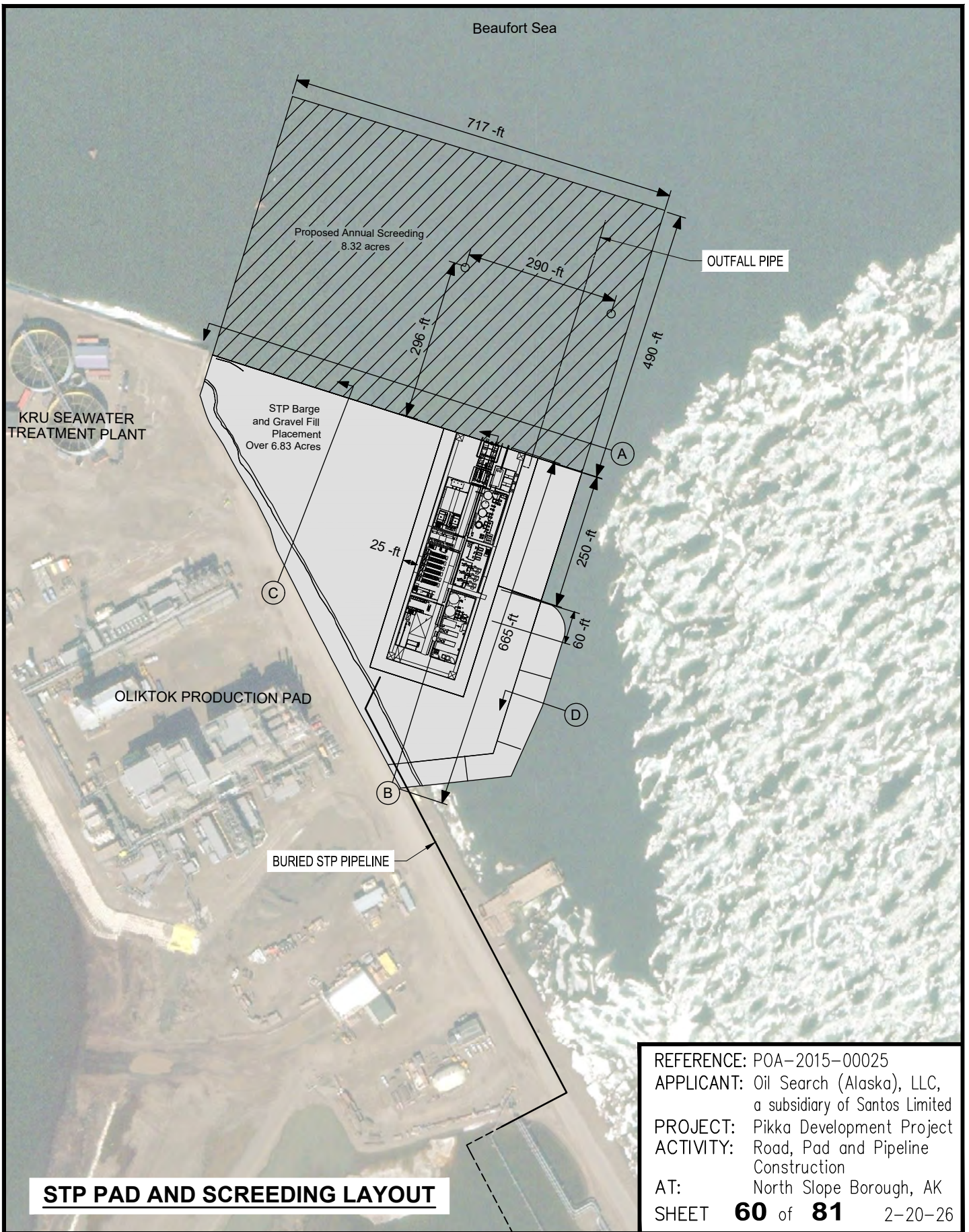
TYPICAL SECTION AT ABUTMENT



TYPICAL SECTION AT PIER

MILUVEACH RIVER BRIDGE PIER SECTIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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Beaufort Sea

717 -ft

Proposed Annual Screeding
8.32 acres

290 -ft

OUTFALL PIPE

490 -ft

STP Barge
and Gravel Fill
Placement
Over 6.83 Acres

A

KRU SEAWATER
TREATMENT PLANT

25 -ft

250 -ft

OLIKTOK PRODUCTION PAD

C

D

685 -ft

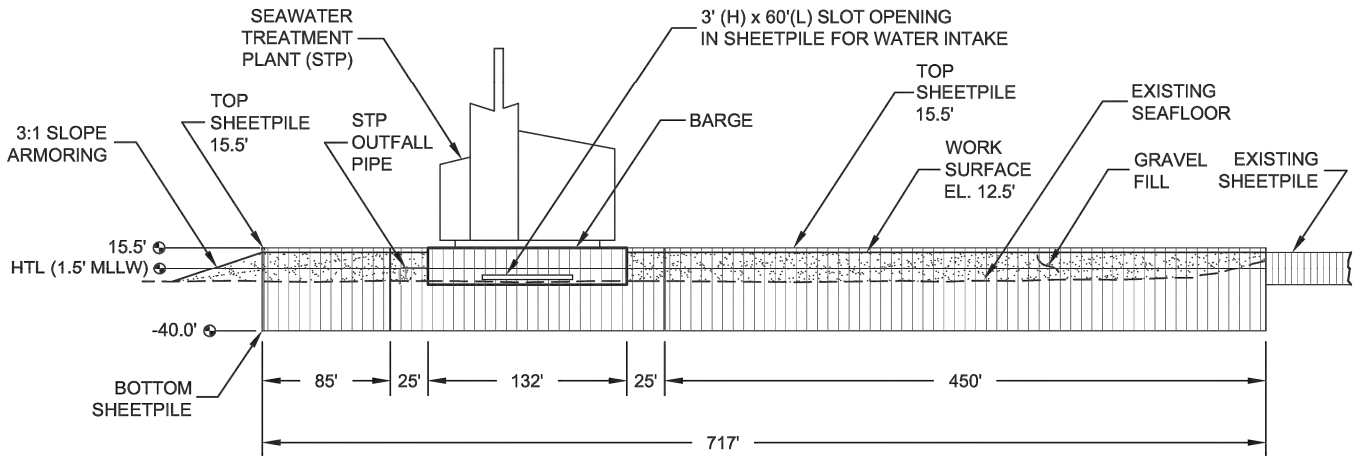
60 -ft

B

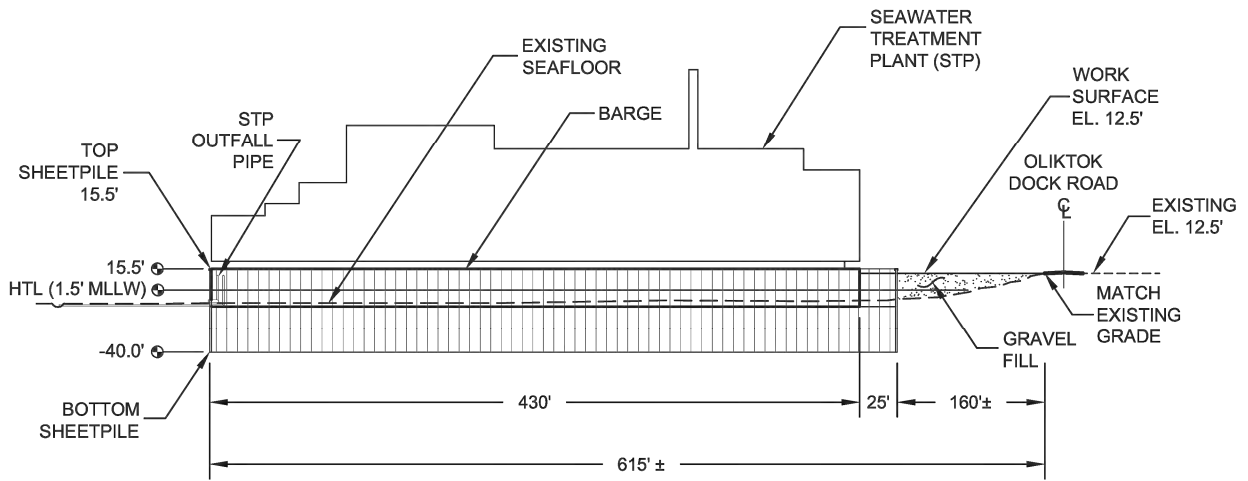
BURIED STP PIPELINE

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **60** of **81** 2-20-26

STP PAD AND SCREEDING LAYOUT



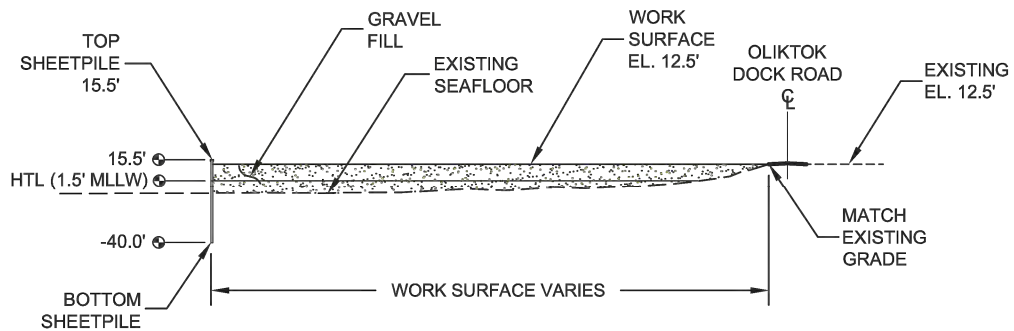
SECTION A-A



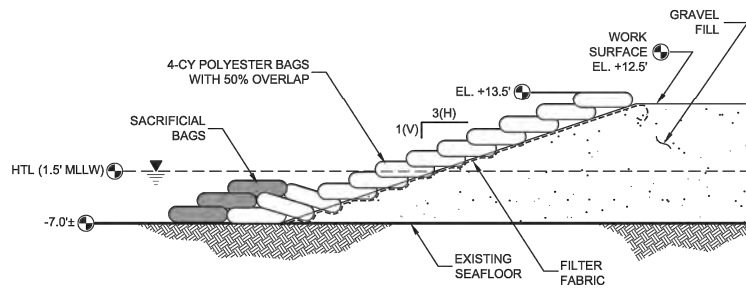
SECTION B-B

STP SECTIONS A AND B

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **61** of **81** 2-20-26



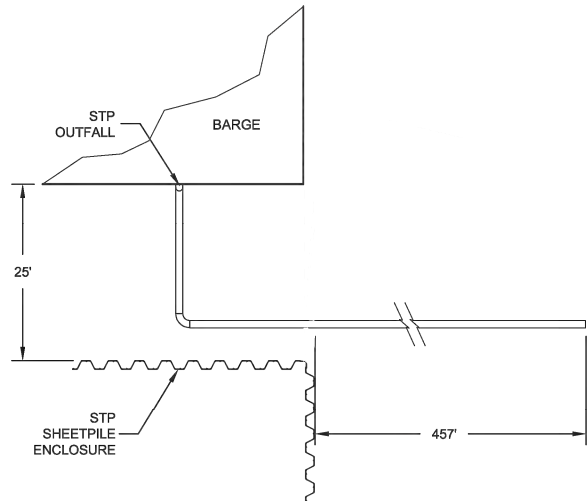
SECTION C-C



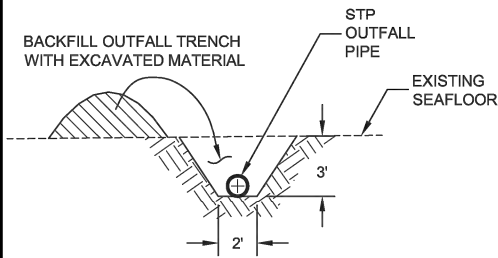
SECTION D-D

STP SECTIONS C AND D

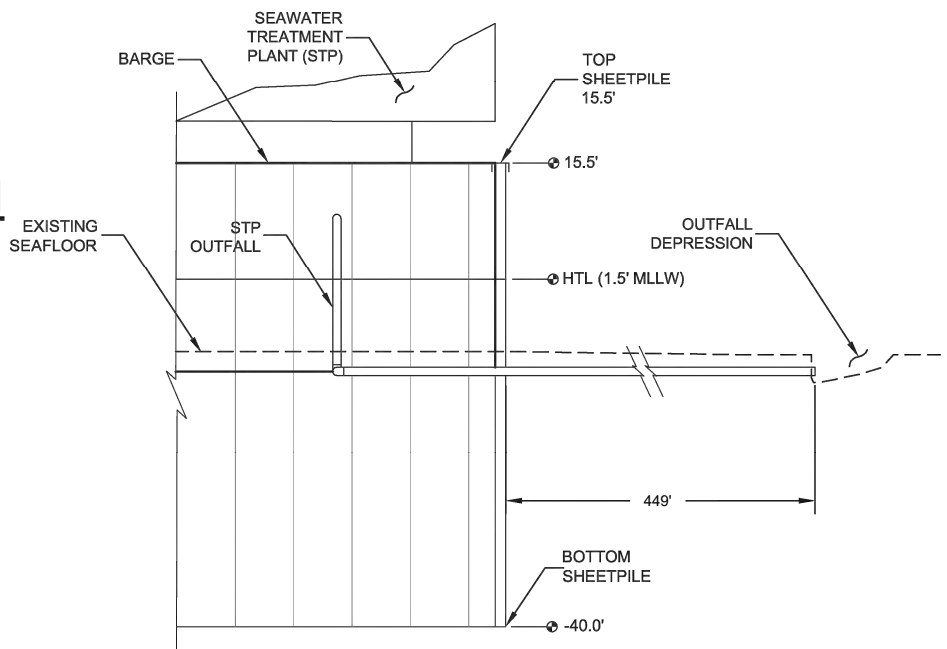
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **62** of **81** 2-20-26



OUTFALL PIPE - PLAN VIEW



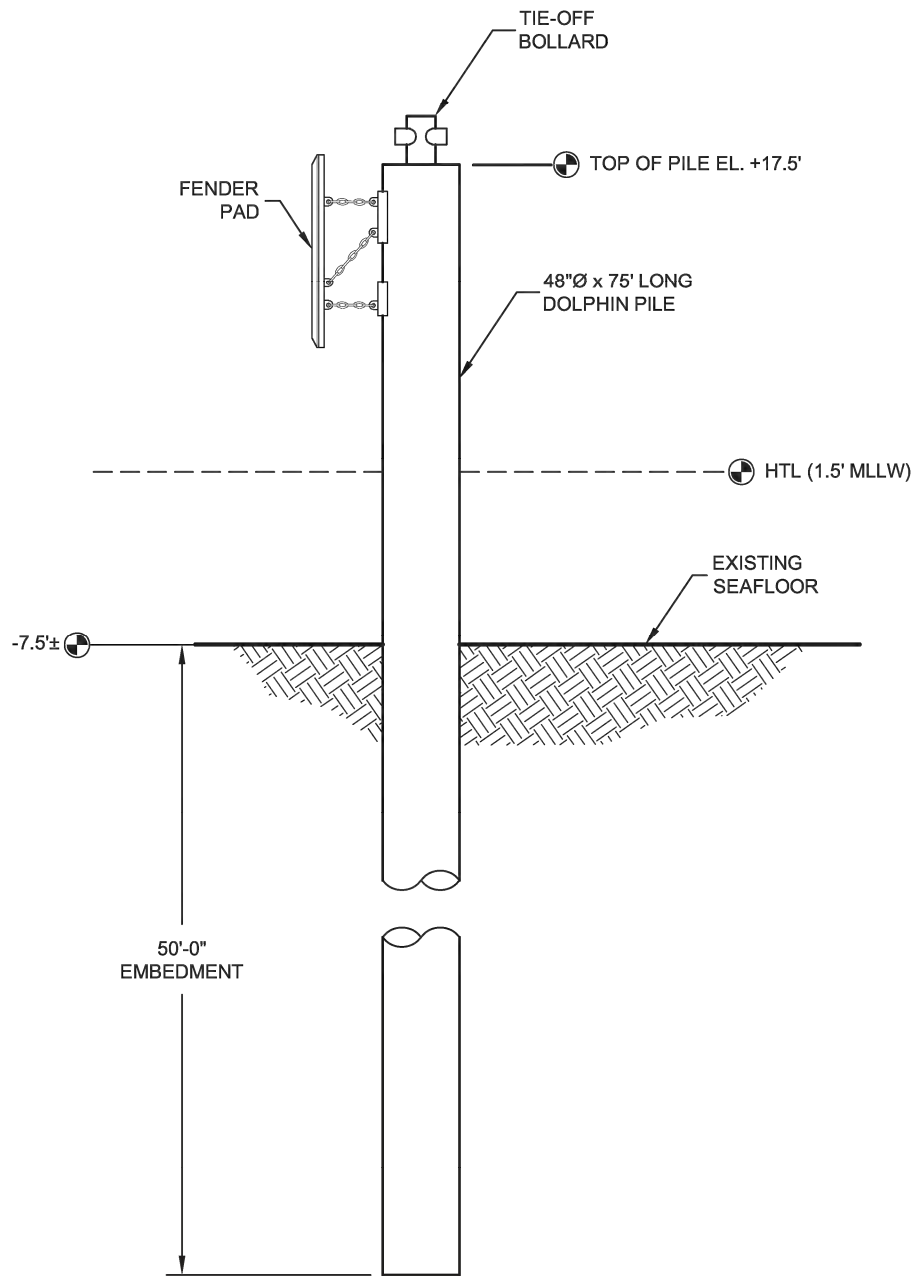
TRENCH - SECTION



OUTFALL PIPE - PROFILE VIEW

STP OUTFALL PIPE DETAILS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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TYPICAL DOLPHIN

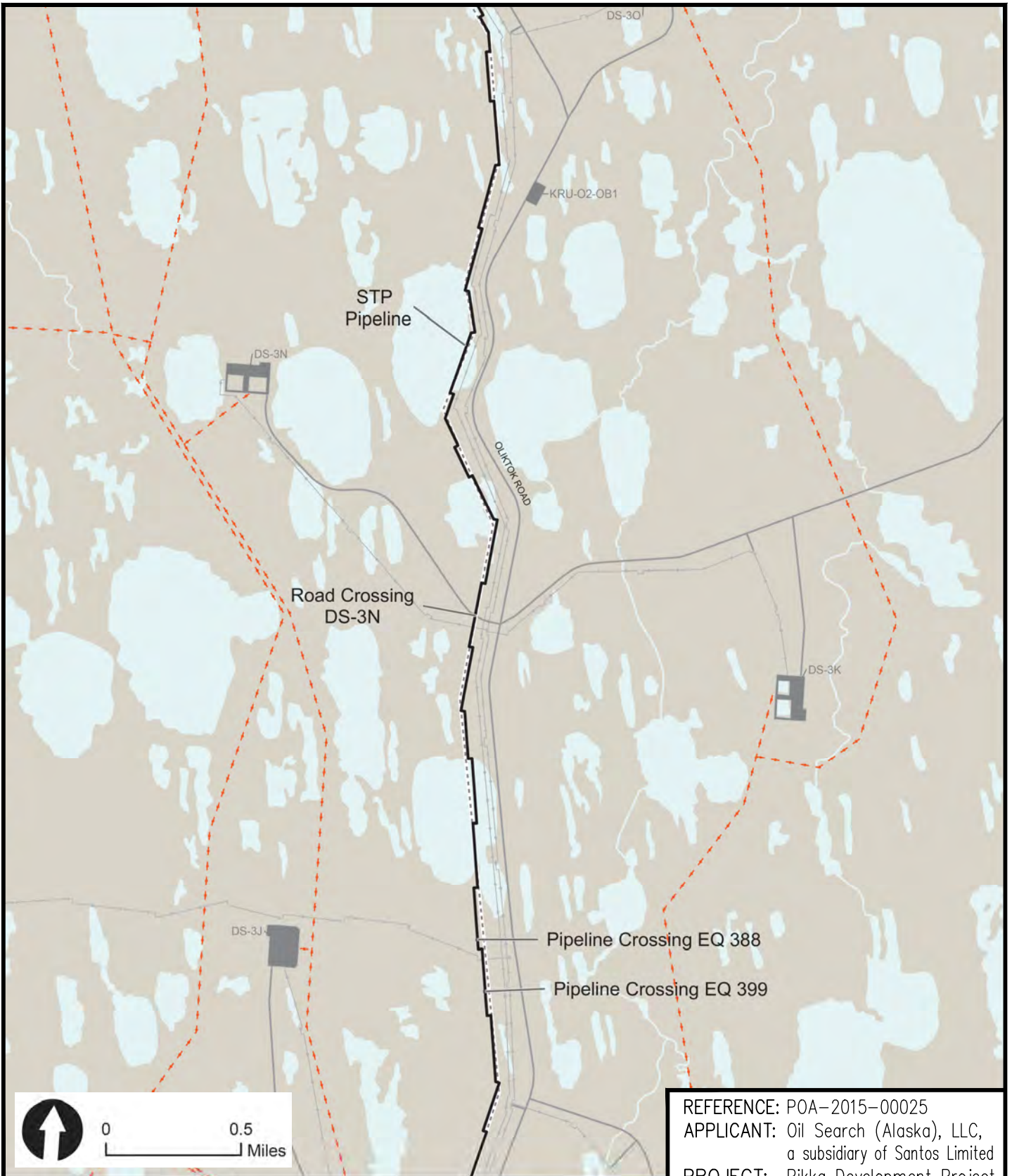
STP TYPICAL DOLPHIN

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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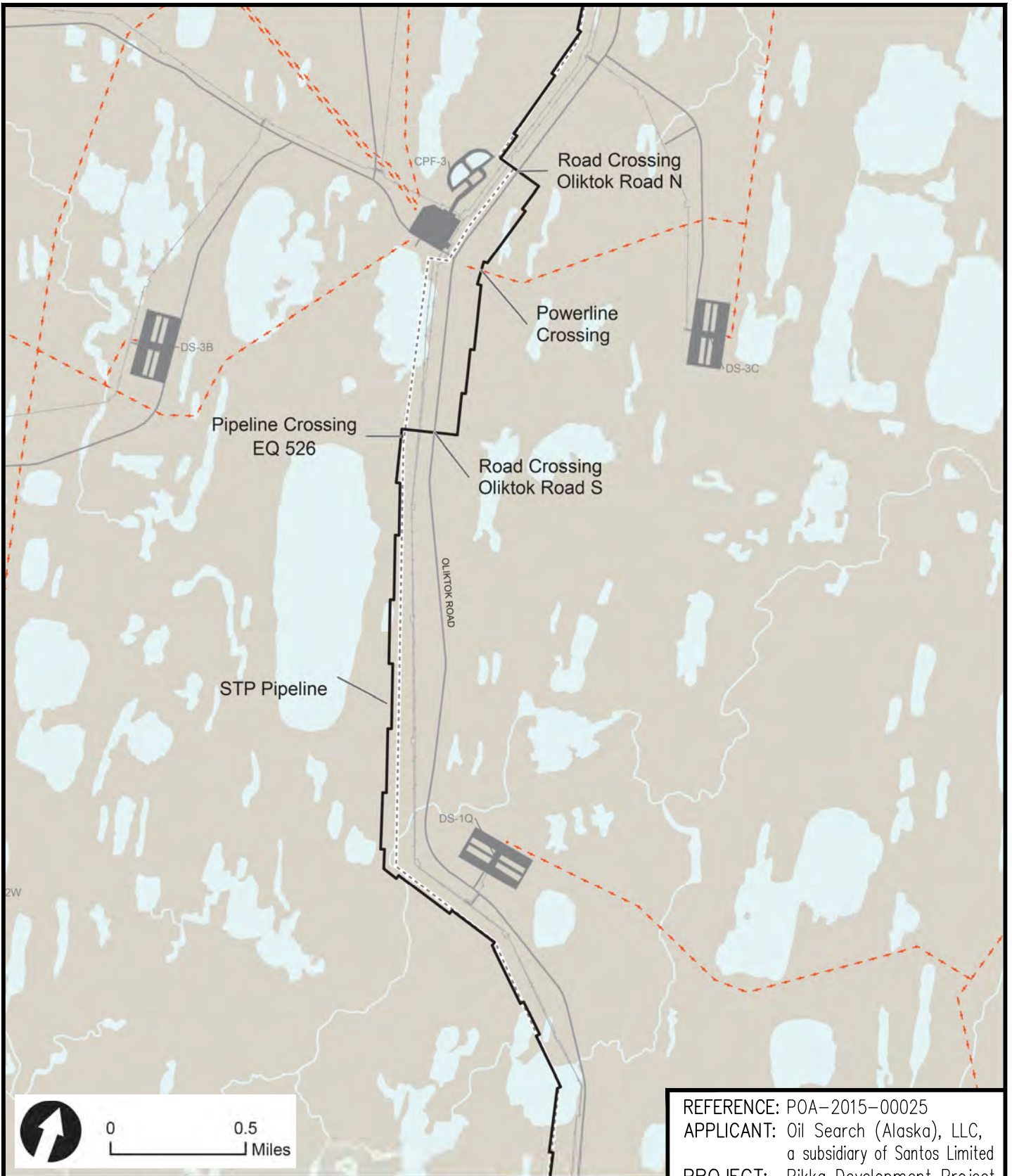
STP-TIP DETAIL SHEET 1 OF 5

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **66** of **81** 2-20-26



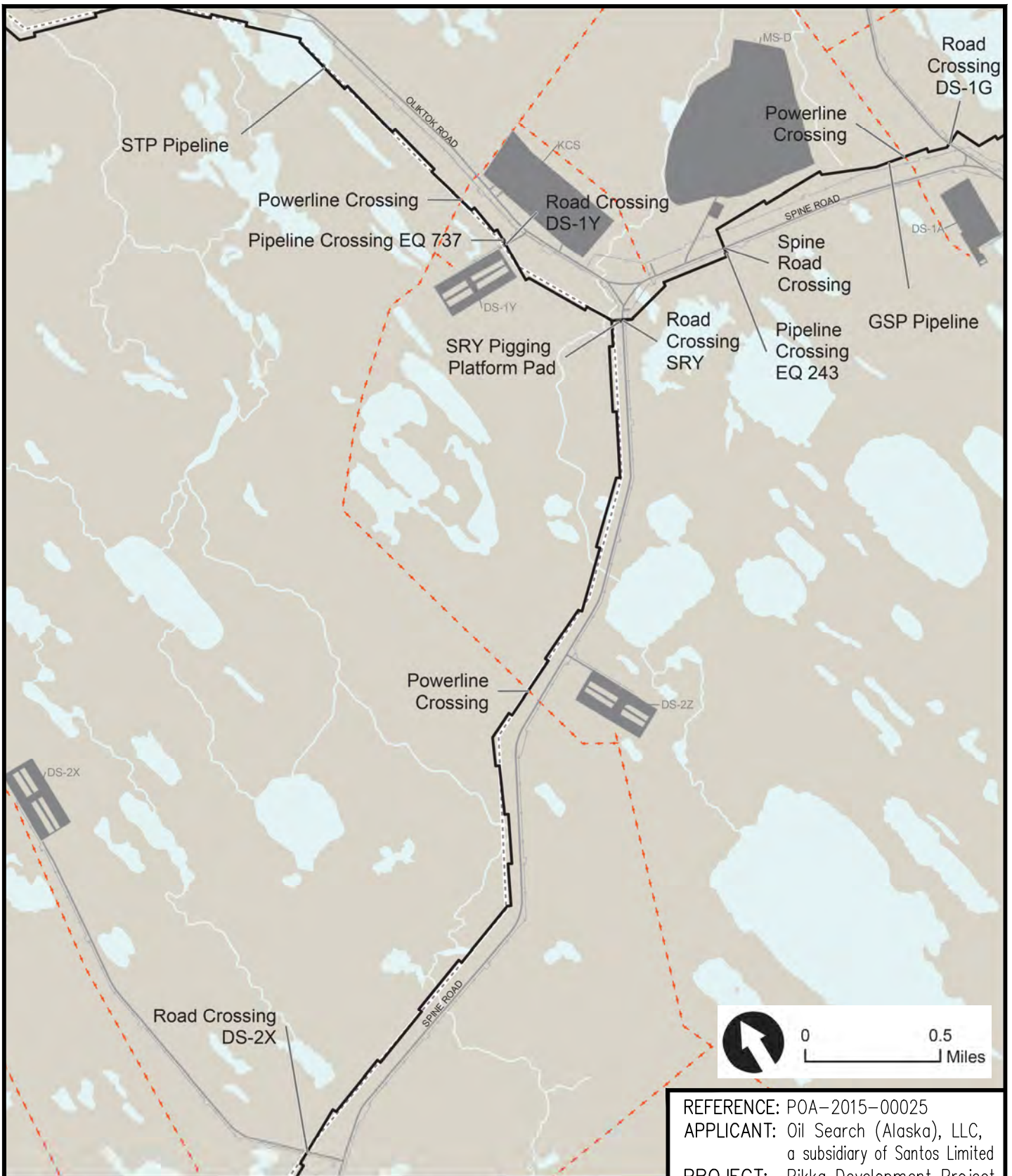
STP-TIP DETAIL SHEET 2 OF 5

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **67** of **81** 2-20-26



STP-TIP DETAIL SHEET 3 OF 5

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **68** of **81** 2-20-26



STP-TIP DETAIL SHEET 4 OF 5

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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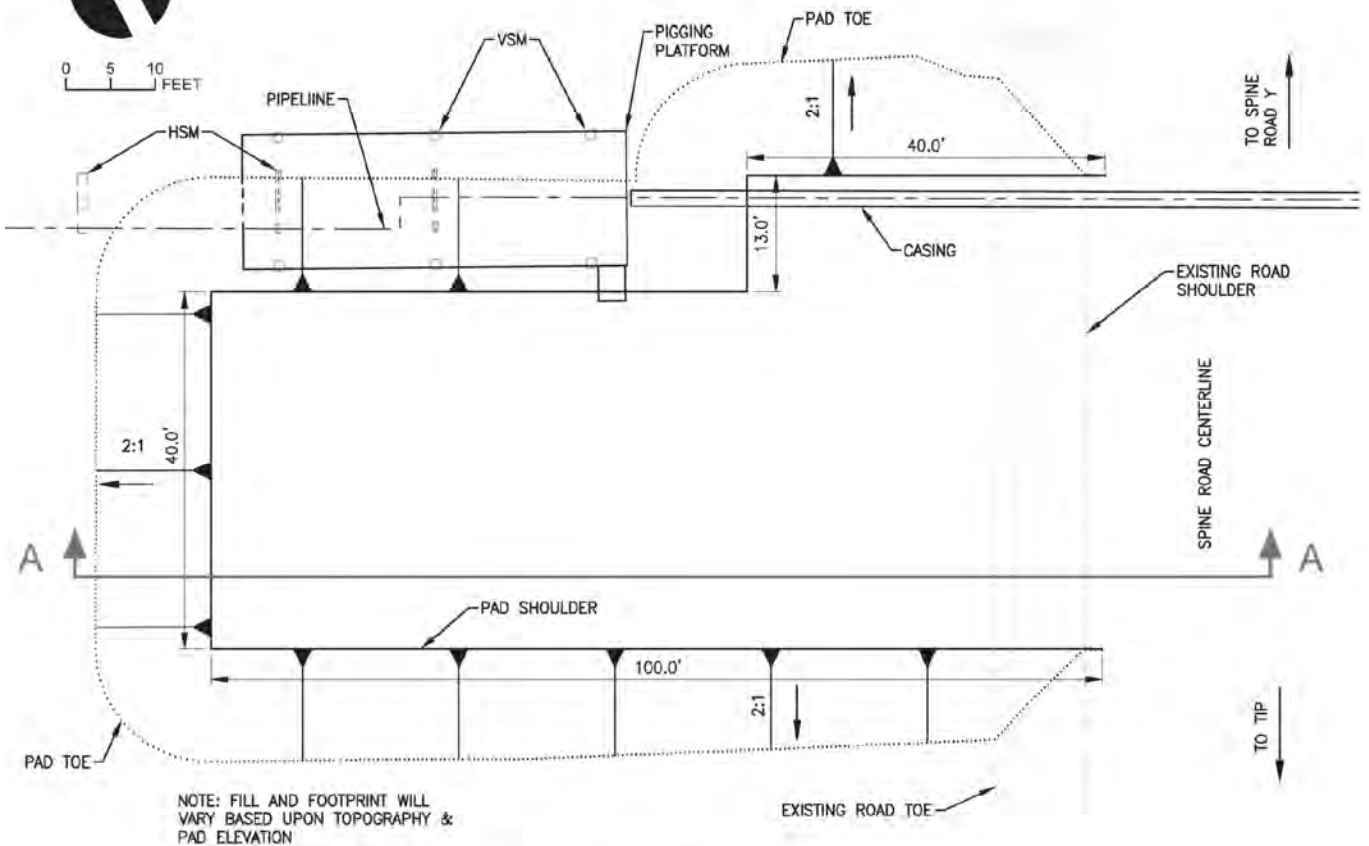


STP-TIP DETAIL SHEET 5 OF 5

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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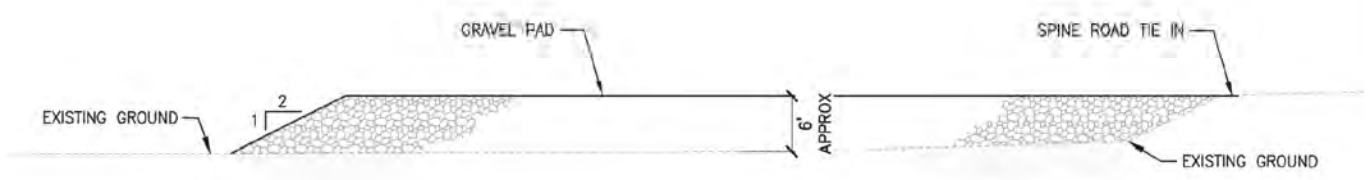



0 5 10 FEET



NOTE: FILL AND FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & PAD ELEVATION

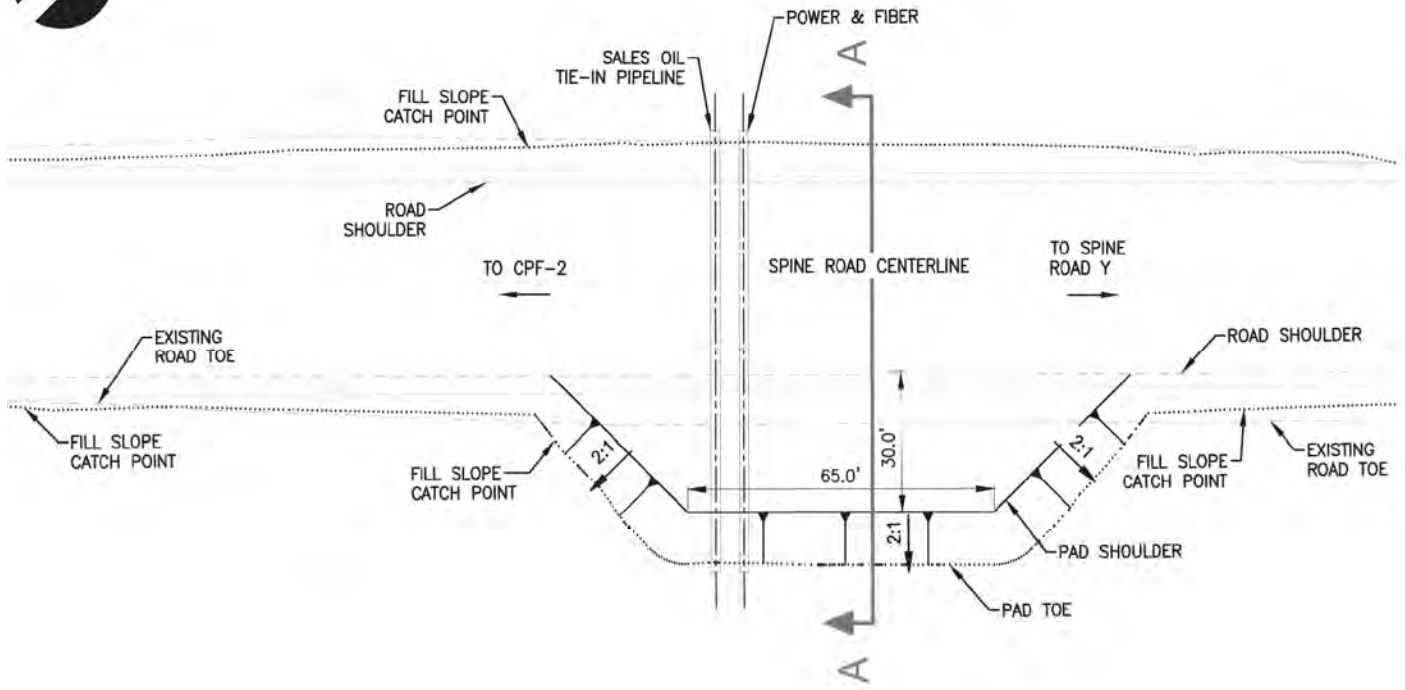
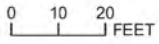
PAD PLAN




PAD SECTION
 SCALE: 1" = 20'
 1V:1H

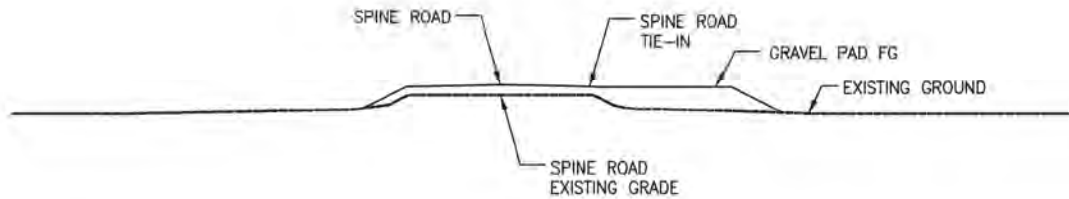
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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STRY PIGGING PLATFORM PAD PLAN AND SECTION



SOT PARKING PAD PLAN

SCALE: 1" = 40'

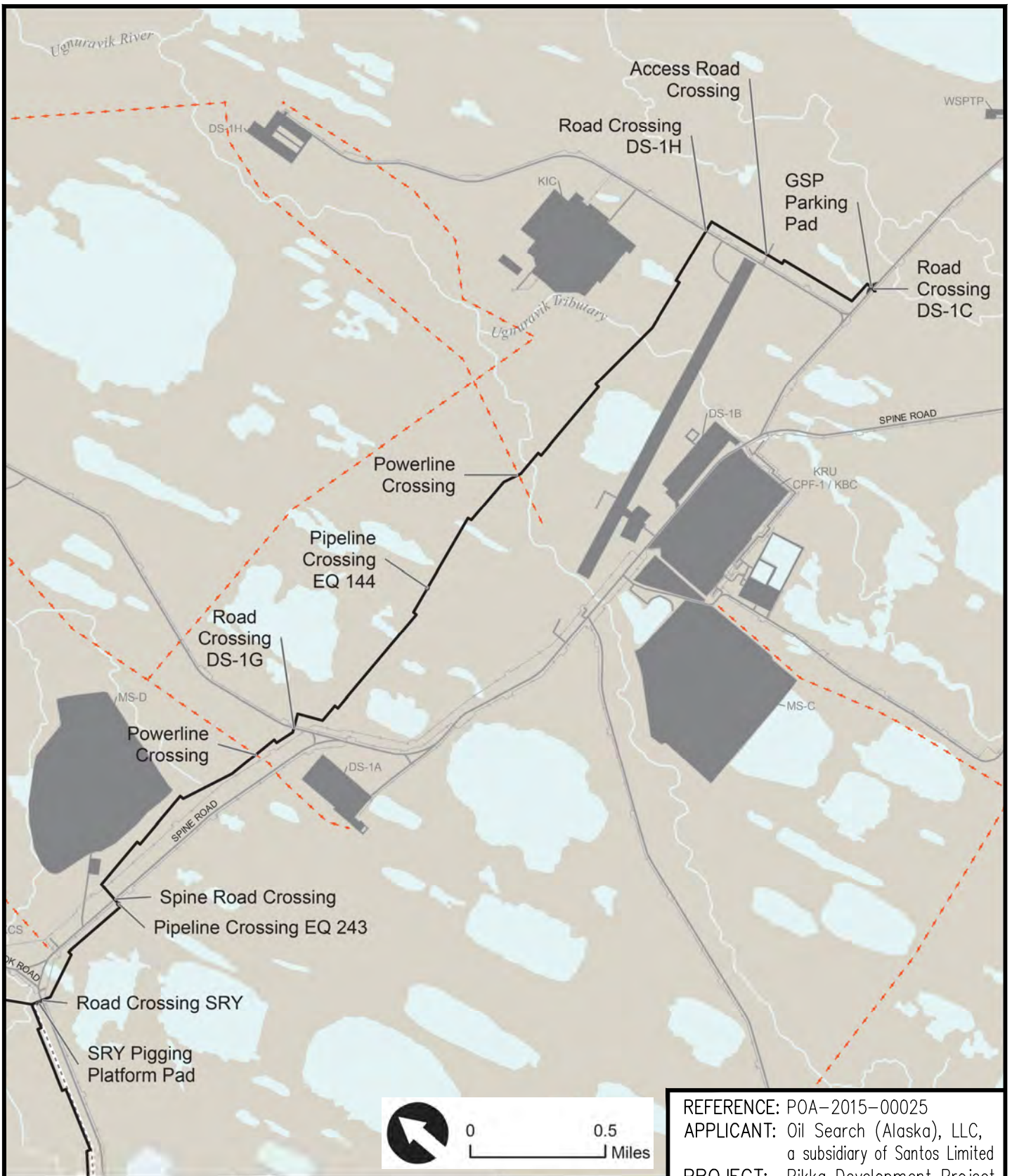


SOT PARKING PAD SECTION

SCALE: 1" = 40'
1V:1H

**SOT PARKING PAD AND ROAD CROSSING
PLAN AND SECTION**

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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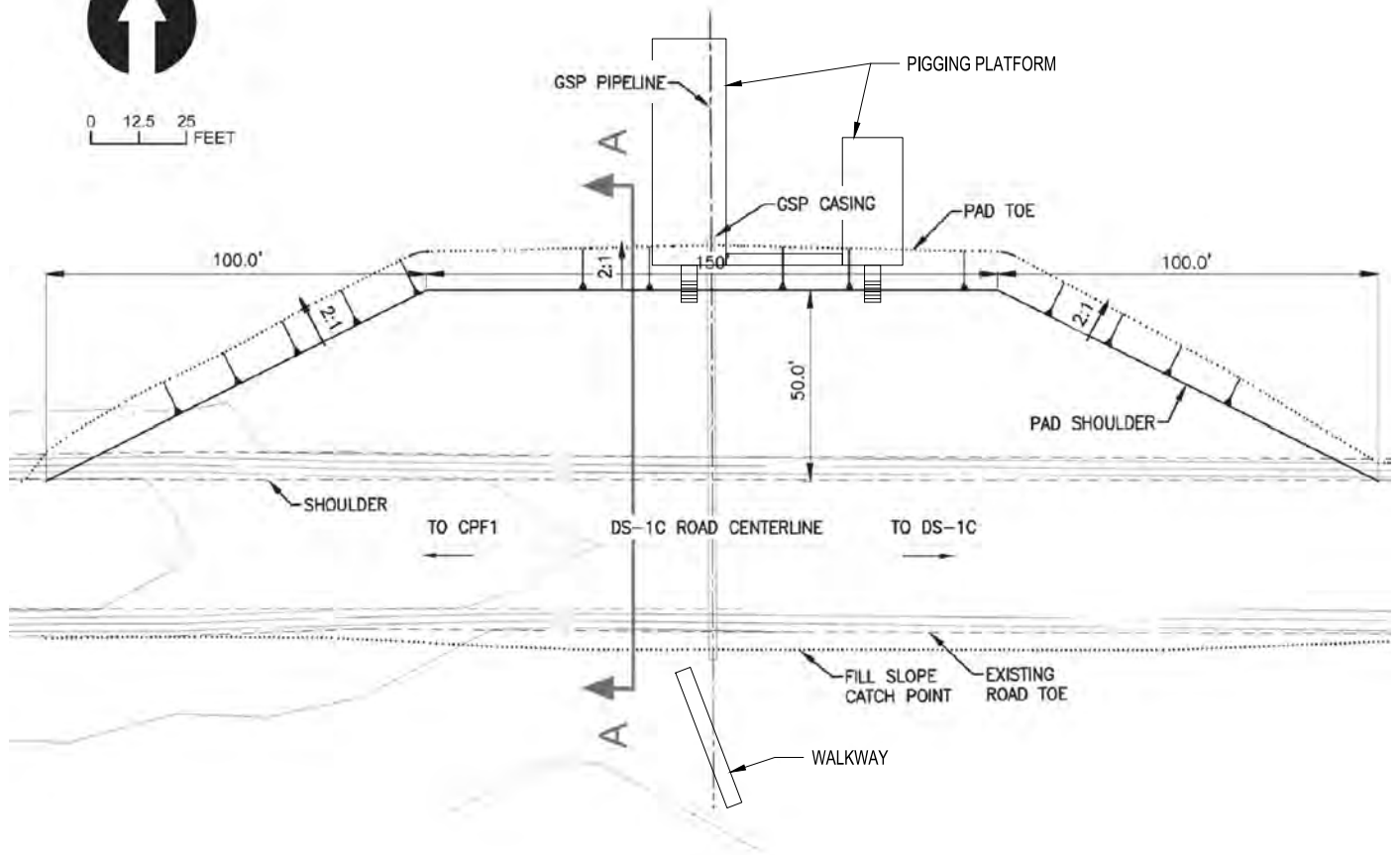


GSP DETAIL

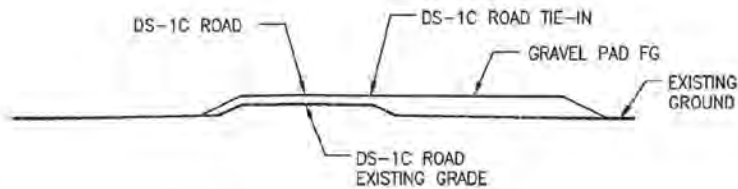
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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0 12.5 25 FEET



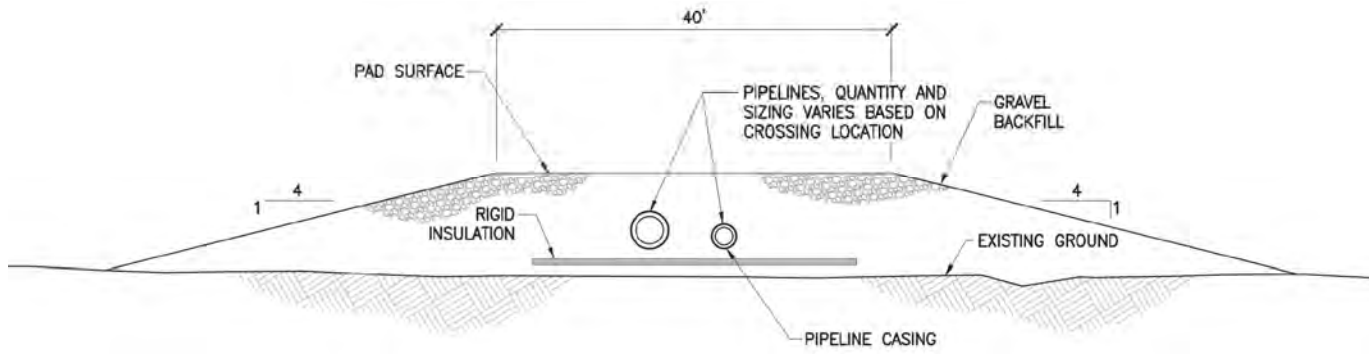
GSP PARKING PLAN
SCALE: 1" = 50'



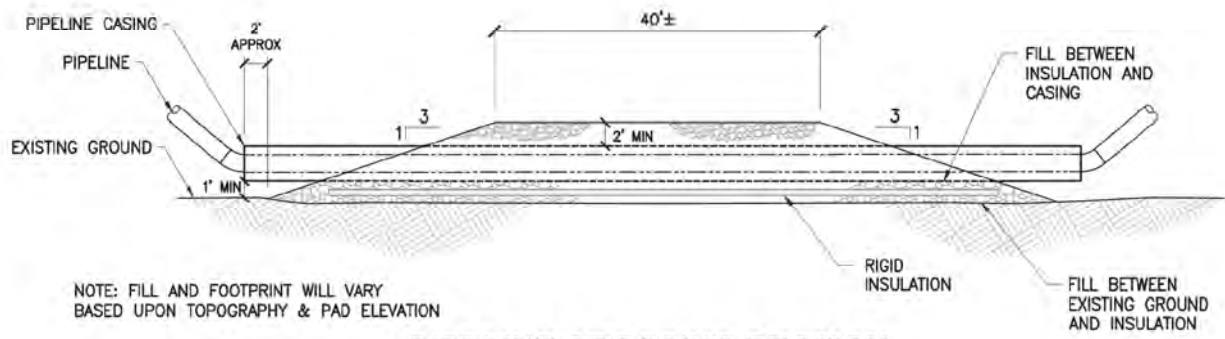
GSP PARKING SECTION
SCALE: 1" = 50'
1V:1H

**GSP PARKING PAD AND ROAD CROSSING
PLAN AND SECTION**

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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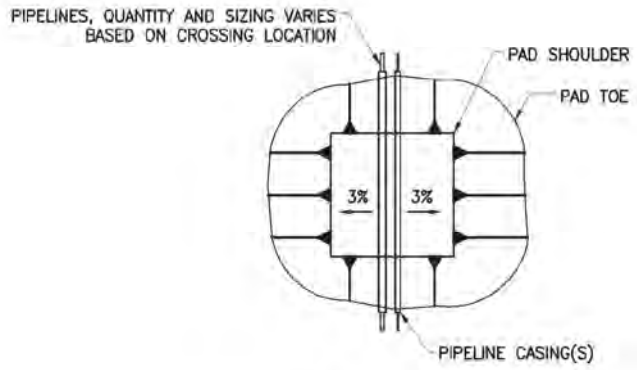


PIPELINE CROSSING PROFILE
NTS



NOTE: FILL AND FOOTPRINT WILL VARY
BASED UPON TOPOGRAPHY & PAD ELEVATION

PIPELINE CROSSING SECTION
NTS

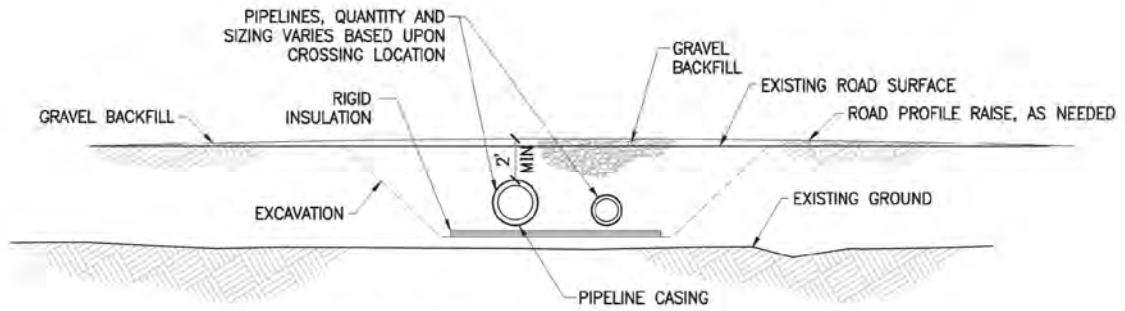


PIPELINE CROSSING PLAN
NTS

NOTE: APPLIES TO EQ 52, EQ 186, EQ 388, EQ 399,
EQ 526, EQ 737, EQ 1034, EQ 144, AND EQ 243

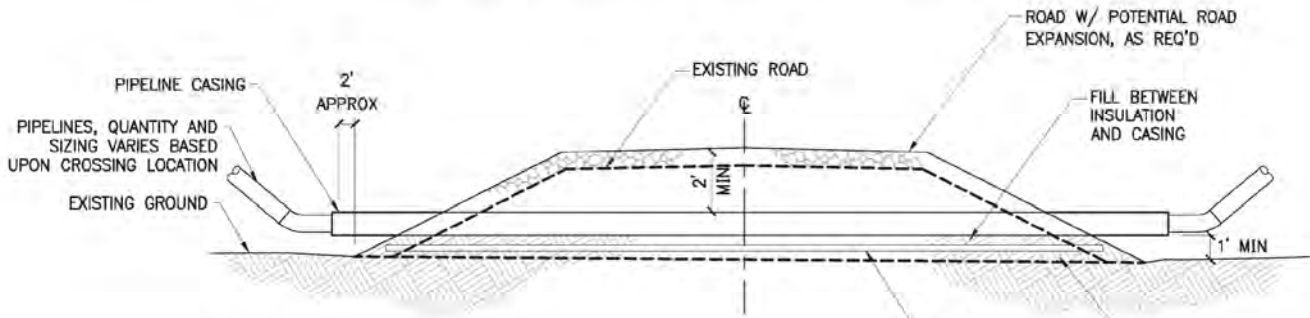
TYPICAL EQUIPMENT PAD PIPELINE CROSSING

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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EXISTING ROAD PIPELINE CROSSING PROFILE

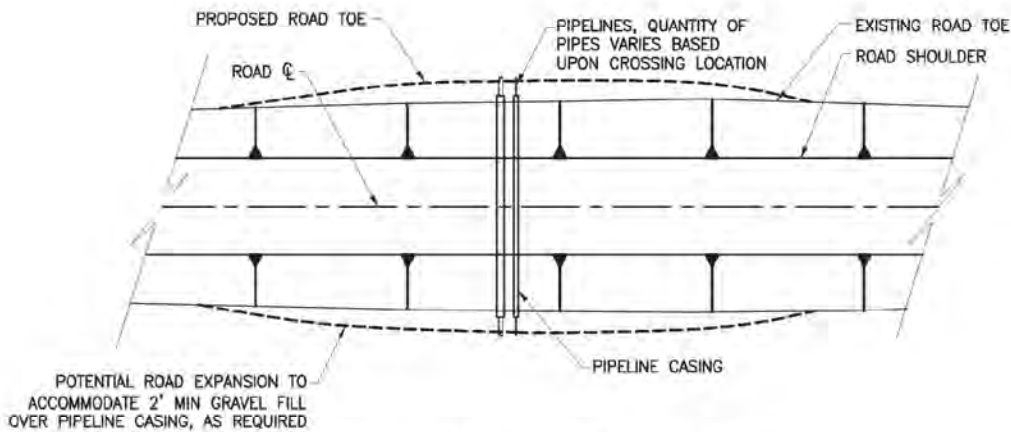
NTS



NOTE: FILL AND FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & ROAD ELEVATION

EXISTING ROAD PIPELINE CROSSING SECTION

NTS



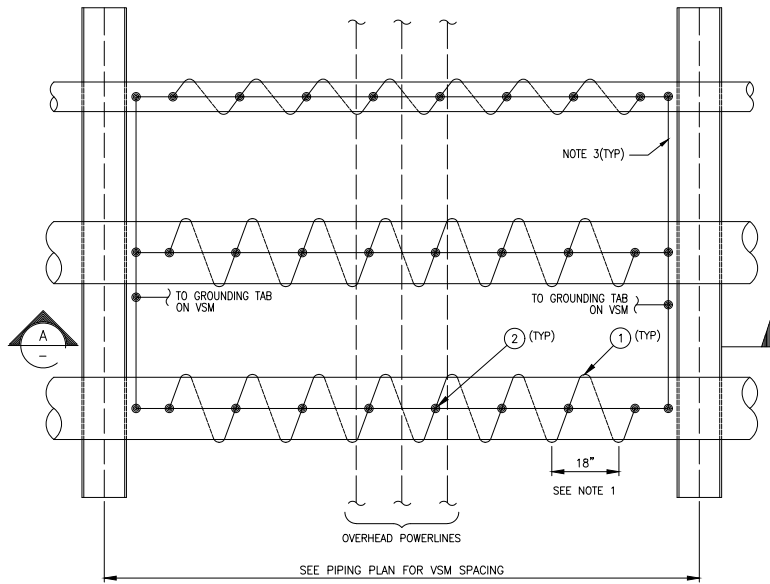
EXISTING ROAD PIPELINE CROSSING PLAN

NTS

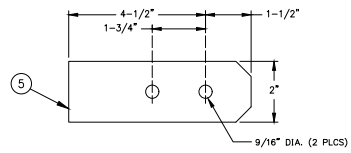
NOTE: APPLIES TO DS-3Q, DS-3N, OLIKTOK ROAD N, OLIKTOK ROAD S, DS-1Y, SRY PIGGING PLATFORM PAD, DS-2X, SOT PARKING PAD, SPINE ROAD, DS-1G, DS-1H, ACCESS ROAD AND GSP PARKING PAD

TYPICAL ACCESS EXISTING ROAD PIPELINE CROSSING

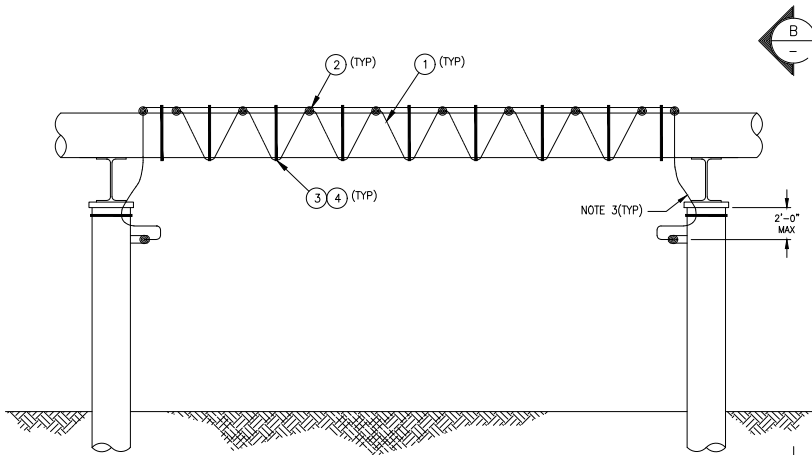
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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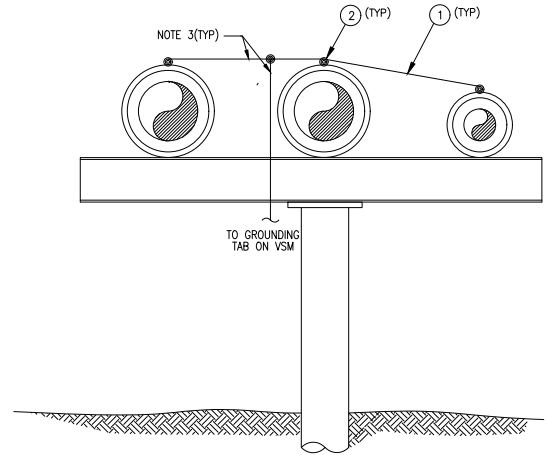
1 PLAN VIEW
NOT TO SCALE



2 GROUNDING TAB DETAIL
NOT TO SCALE



A PIPE GROUND ELEVATION
NOT TO SCALE



B PIPE GROUND SECTION
NOT TO SCALE

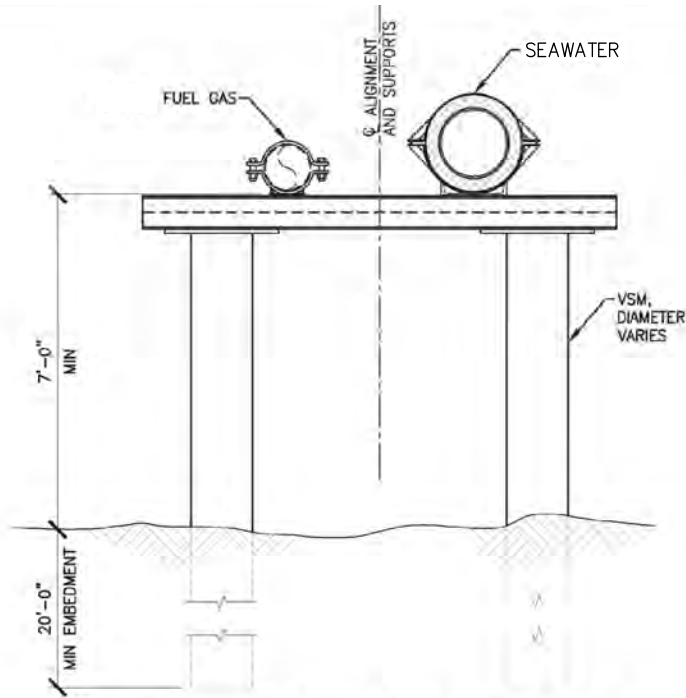
MATERIAL LIST	
ITEM	DESCRIPTION
1	4/0 BARE COPPER, 19 STRAND
2	MECHANICAL GROUNDING CONNECTOR, 2/0 - 250kCMIL, 1/2" STUD, BURNDY# GC2929 OR GX2929
3	CABLE STRAP, HEAVY DUTY, DELTEC
4	DOUBLE LOCKING HEAD, DELTEC
5	PLATE, STEEL, A-36, 1/4" THK, 6"x2", CUT FROM STOCK (AAI 131-4203)
6	LUG, COMPRESSION, CU, GROUNDING, #4/0 AWG, 2 HOLE, 1/2" STUD, BURNDY #YGHA28-2N
7	BOLT, HEX HEAD, 1/2"x1-1/2", SS W/NUT
8	WASHER, FLAT, SS, 1/2", A304/A316
9	WASHER, SPRING (LOCK), STAINLESS, 1/2", A304/A316

NOTES:

- DISTANCE BETWEEN THE WRAPS SHOULD BE APPROXIMATELY 18".
- ALL WORK SHALL BE PERFORMED PER APPLICABLE CODES AND STANDARDS. ALL CODES AND STANDARDS SHALL BE THE MOST RECENT EDITION. ALL CODES AND STANDARDS SHALL BE FOLLOWED, EXCEPT WHERE LOCAL REGULATIONS OR SPECIFICATION REQUIREMENTS ARE MORE STRINGENT, IN WHICH CASE THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- PROVIDE SUFFICIENT SLACK (MINIMUM 18") TO ALLOW FOR PIPELINE THERMAL MOVEMENT. UNSUPPORTED CONDUCTOR SHALL NOT EXCEED 6'-0".

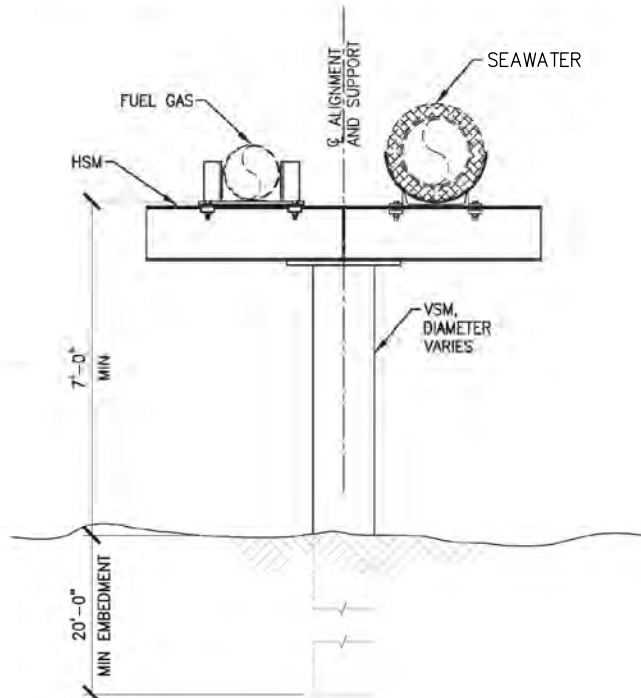
REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **77** of **81** 2-20-26

BONDING CABLE DETAILS



STP ANCHOR SUPPORT

NTS

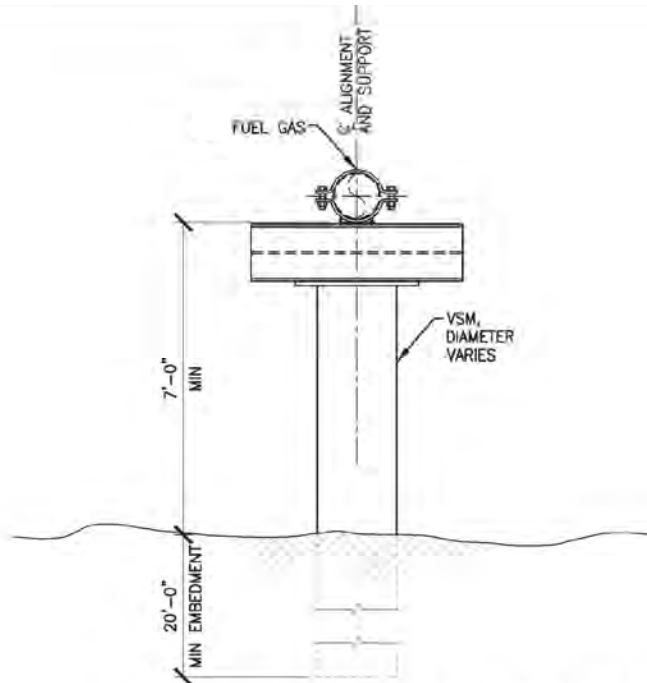


STP GUIDE SUPPORT

NTS

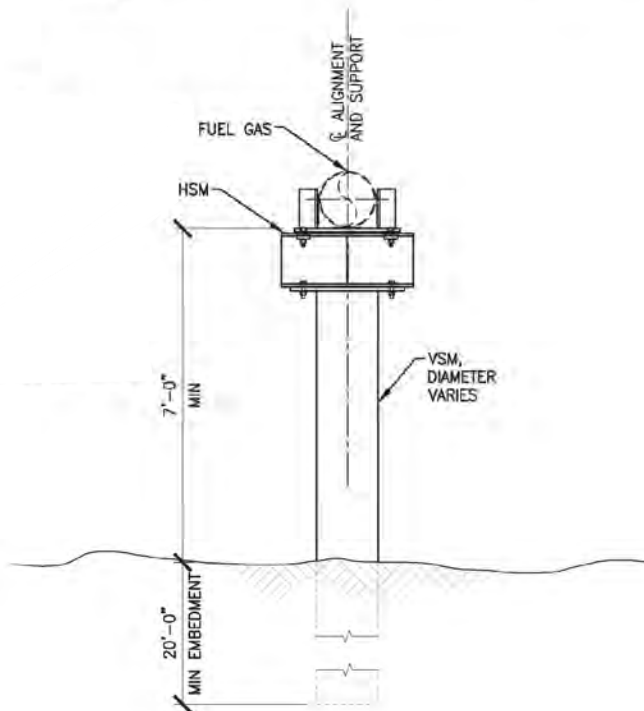
TYPICAL STP ANCHOR SUPPORT AND GUIDE SUPPORT ELEVATIONS

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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GSP ANCHOR SUPPORT

NTS



GSP GUIDE SUPPORT

NTS

**TYPICAL GSP ANCHOR SUPPORT
AND GUIDE SUPPORT ELEVATIONS**

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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FEATURE	LENGTH (MI)	GRAVEL FILL (CY)	FOOTPRINT (ACRES)
GRAVEL PADS			
NDA PAD	–	243,000±	16.2±
NDB PAD	–	305,000±	20.8±
NDC PAD	–	281,000±	20.3±
NDC VALVE PADS	–	12,500±	0.8±
NPF PAD	–	226,000±	17.3±
OPERATIONS PAD	–	230,000±	16.4±
TIE-IN PAD	–	9,000±	0.9±
PUMP HOUSE PAD	–	21,000±	1.8±
TUNDRA PAD PIPELINE CROSSING	–	2,000±	0.2±
BOAT LAUNCH (INCLUDES FILL BELOW OHW, SEE TABLE BELOW)	–	20,000±	2.0±
GRAVEL ROADS			
ACCESS ROAD	9.2±	638,000±	72.9±
NDA ROAD	3.5±	215,000±	25.0±
NDB ROAD	2.0±	142,000±	15.4±
NDC ROAD	5.8±	489,000±	46.3±
WATER SOURCE ACCESS ROAD	0.2±	12,000±	1.4±
BOAT LAUNCH ACCESS ROAD	1.8±	111,000±	12.8±
MUSTANG ROAD UPGRADES	4.7±	97,000±	6.0±
EAST MILUVEACH PIPELINE CROSSING ROAD	0.2±	12,000±	1.4±
STP PIPELINE GRAVEL			
EQUIPMENT (EQ) CROSSINGS ①	–	7,900±	1.2±
EXISTING ROAD PIPELINE CROSSINGS ②	–	8,800±	0.4±
STRY PIGGING PLATFORM/STRY ROAD	–	1,600±	0.2±
GSP PIPELINE GRAVEL			
EQUIPMENT (EQ) CROSSINGS ③	–	3,000±	0.5±
GSP PARKING PAD & PLATFORMS/DS-1C ROAD	–	4,400±	0.4±
SOT PARKING PAD & PLATFORMS	–	1,980±	0.2±
TOTAL	27.4±	3,093,180±	280.8±

NOTES:

- EQ CROSSINGS 52, 186, 388, 399, 526, 737, AND 1034 ARE INCLUDED IN THIS TOTAL.
- EXISTING ROAD CROSSINGS DS-3Q, DS-3N, OLIK TOK ROAD N, OLIK TOK ROAD S, DS-1A, DS-2X, SPINE ROAD, DS-1G, DS-1H, AND ACCESS ROAD ARE INCLUDED IN THIS TOTAL.
- EQ CROSSINGS 144 AND 243 ARE INCLUDED IN THIS TOTAL.

FEATURE	VALUE	UNIT
BOAT LAUNCH		
FOOTPRINT BELOW OHW	0.7±	AC
GRAVEL FILL BELOW OHW	6,000±	CY

FEATURE	VALUE	UNIT
BRIDGE AND CULVERTS		
MILUVEACH RIVER BRIDGE*	170±	LF
KACHEMACH RIVER BRIDGE*	245±	LF
CULVERTS**	235± MIN	EA

FEATURE	VALUE	UNIT
STP FACILITY		
FOOTPRINT BELOW OHW	6.8±	AC
GRAVEL FILL BELOW OHW	190,000±	CY
SUNKEN BARGE BELOW OHW	47,000±	CY

- * BRIDGE LENGTHS REPRESENT OPENING WIDTHS, MEASURED FROM FACE-OF-ABUTMENT TO FACE-OF-ABUTMENT.
- ** CULVERTS TO BE INSTALLED EVERY 500' ON AVERAGE. ADDITIONAL CULVERTS WILL BE ADDED AS NEEDED. LENGTHS, DIAMETERS, QUANTITIES TO BE DETERMINED DURING A SUMMER FIELD SURVEY PRIOR TO CONSTRUCTION.

FILL ACREAGE AND VOLUMES

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
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FEATURE	VSM (TOTAL)* (EA)	SINGLE HOLE AREA (30" OD (SF))	TOTAL VSM AREA (HOLE AREA (SF, AC))	TOTAL VSM SLURRY VOL (CY)	TOTAL VSM STEEL (LF)
VSM AND SLURRY:					
NDA PIPELINE	520±	4.9±	2,550± SF, 0.1± AC	1,450±	11,500±
NDB PIPELINE	390±	4.9±	2,000± SF, 0.1± AC	1,100±	8,600±
NDC PIPELINE	1,110±	4.9±	5,500± SF, 0.1± AC	3,050±	24,500±
PIKKA PIPELINE	3,040±	4.9±	15,000± SF, 0.3± AC	8,300±	66,900±
STAND ALONE FRESHWATER PIPELINE MC7903 TO OPERATIONS CENTER	85±	4.9±	450± SF, 0.0± AC	250±	1,900±
STP MODIFICATIONS	30±	4.9±	8,300± SF, 0.2± AC	1,500±	660±
GAS SPUR	460±	4.9±	2,260± SF, 0.1± AC	1,840±	10,100±
TOTAL	5,635±	-	36,060± SF, 0.9± AC	17,490± CY	124,160 (LF)

* APPROXIMATE

NOTES:

- VSM AREA IS BASED ON THE LARGEST SIZE VSM FOR THE PROJECT. ACTUAL VSM SIZES WILL RANGE FROM 8 INCH OUTSIDE DIAMETER TO 24 INCH OUTSIDE DIAMETER.

FEATURE	FOOTPRINT (AC)	FILL QUANTITY (CY)	NOTES/DIMENSIONS
SCREEDING FOOTPRINT	8.3±	-	717 FT BY 490 FT SCREEDING AREA TO DEPTH OF 8.0 TO 8.5 MLLW
POWER/FIBER OPTIC CABLE TRENCHING	0.1±	600±	APPROX 300 FT LONG BY 18 INCH WIDE BY 5 FT DEEP TRENCH @ EA PIPELINE ROAD CROSSING. TOTAL OF 6 PIPELINE ROAD CROSSINGS
TOTAL AREA OF IMPACT	5.8±	600±	

SUMMARY TABLE

COMPONENT	FILL TOTAL (CY)	FOOTPRINT (ACRES)
ROADS AND PADS TOTAL	3,093,180±	280.8±
VSM AND SLURRY TOTAL	17,490±	0.9±
SCREEDING AND TRENCHING TOTAL	600±	0.1±
OVERALL TOTAL	3,111,270±	281.8±

FILL ACREAGE AND VOLUMES, CONT.

REFERENCE: POA-2015-00025
 APPLICANT: Oil Search (Alaska), LLC,
 a subsidiary of Santos Limited
 PROJECT: Pikka Development Project
 ACTIVITY: Road, Pad and Pipeline
 Construction
 AT: North Slope Borough, AK
 SHEET **81** of **81** 2-20-26